**STATE OF UTAH**
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT ☐
(highlight changes)

# APPLICATION FOR PERMIT TO DRILL

| 5. MINERAL LEASE NO: | 6. SURFACE: |
|---|---|
| ML-23608 | State |

1A. TYPE OF WORK: DRILL ☑ REENTER ☐ DEEPEN ☐

7. IF INDIAN, ALLOTTEE OR TRIBE NAME:

B. TYPE OF WELL: OIL ☐ GAS ☑ OTHER _____ SINGLE ZONE ☐ MULTIPLE ZONE ☑

8. UNIT or CA AGREEMENT NAME: NATURAL BUTTES UNIT

2. NAME OF OPERATOR: WESTPORT OIL & GAS COMPANY, L.P.

9. WELL NAME and NUMBER: NBU 1021-13G

3. ADDRESS OF OPERATOR: 1368 S 1200 E CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER: (435) 781-7060

10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: 1444' FNL 2651' FEL 628223 X 39.951642
AT PROPOSED PRODUCING ZONE: 4423259Y -109.498978

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 13 10S 21E

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 19.35 MILES SOUTHEAST OF OURAY, UTAH

12. COUNTY: UINTAH

13. STATE: UTAH

| 15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) | 16. NUMBER OF ACRES IN LEASE: | 17. NUMBER OF ACRES ASSIGNED TO THIS WELL: |
|---|---|---|
| 1444' | 640 | 40 |
| **18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET)** | **19. PROPOSED DEPTH:** | **20. BOND DESCRIPTION:** |
| REFER TO TOPO C | 9,400 | RLB0005238 |
| **21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.):** | **22. APPROXIMATE DATE WORK WILL START:** | **23. ESTIMATED DURATION:** |
| 5254.9' GL | | TO BE DETERMINED |

24. **PROPOSED CASING AND CEMENTING PROGRAM**

| SIZE OF HOLE | CASING SIZE, GRADE, AND WEIGHT PER FOOT | | | SETTING DEPTH | CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT | | | |
|---|---|---|---|---|---|---|---|---|
| | 14" | | | | | | | |
| 12 1/4" | 9 5/8" | H-40 | 32.3# | 2,000 | PREM CMT | 265 SX | 1.18 | 15.6 |
| 7 7/8" | 4 1/2" | I-80 | 11.6# | 9,400 | PREM LITE II | 440 SX | 3.38 | 11 |
| | | | | | 50/50 POZ G | 1510 SX | 1.31 | 14.3 |
| | | | | | | | | |
| | | | | | | | | |
| | | | | | | | | |

25. **ATTACHMENTS**

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES:

- ☑ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER
- ☑ EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER
- ☑ COMPLETE DRILLING PLAN
- ☐ FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) DEBRA DOMENICI TITLE ASSOC. ENVIRONMENTAL ANALYST

SIGNATURE Debra Domenici DATE 2/3/2006

**(This space for State use only)**

API NUMBER ASSIGNED: 43-047-37723

APPROVAL

Approved by the Utah Division of Oil, Gas and Mining

Date: 03-15-06

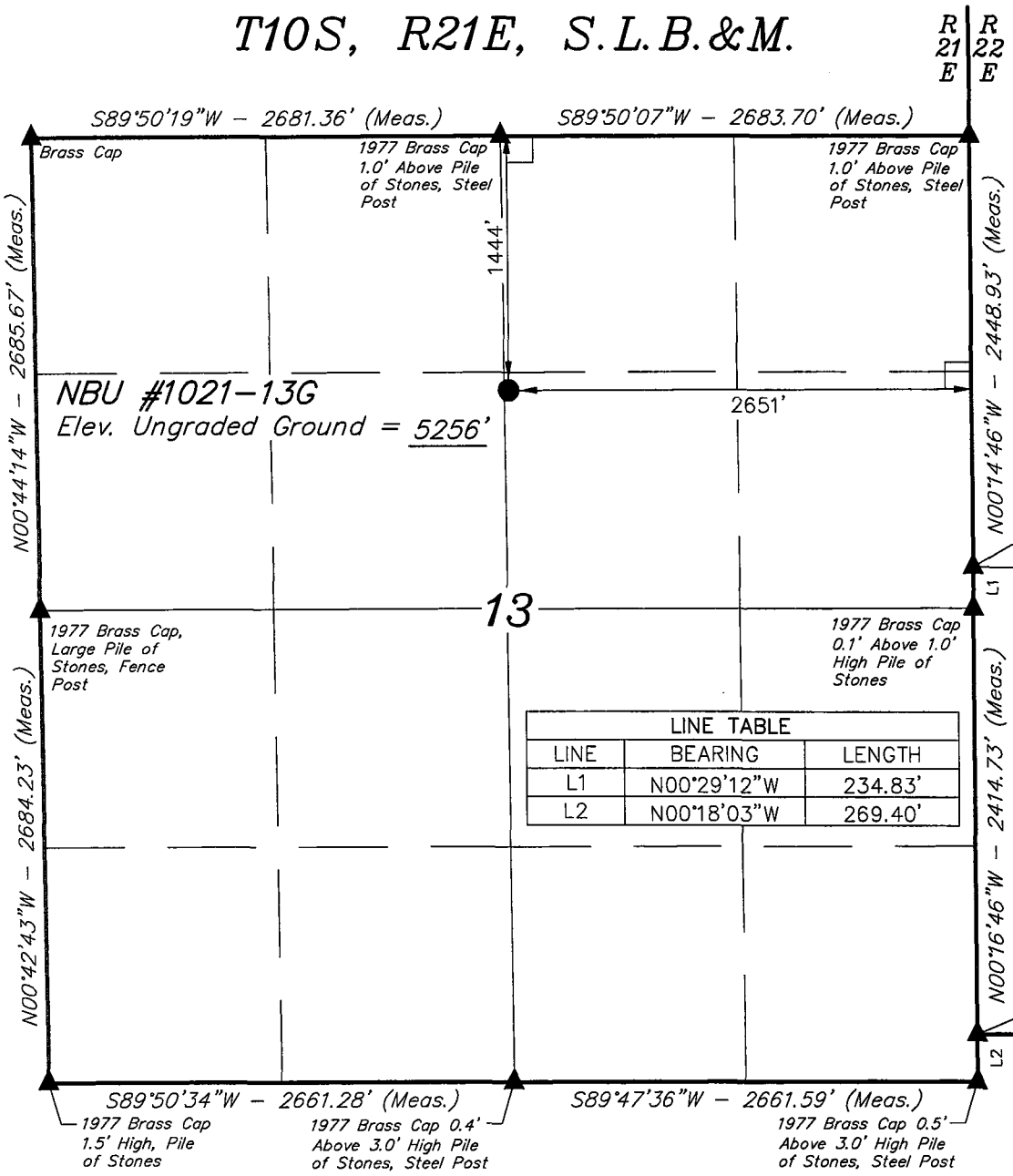
By:

RECEIVED
FEB 08 2006
DIV. OF OIL, GAS & MINING

(See Instructions on Reverse Side)

(11/2001)

# T10S, R21E, S.L.B.&M.




| LINE TABLE | | |
|---|---|---|
| LINE | BEARING | LENGTH |
| L1 | N00°29'12"W | 234.83' |
| L2 | N00°18'03"W | 269.40' |

LEGEND:

└ = 90° SYMBOL

● = PROPOSED WELL HEAD.

▲ = SECTION CORNERS LOCATED.

(NAD 83)

LATITUDE = 39°57'05.85" (39.951625)

LONGITUDE = 109°29'59.28" (109.499800)

(NAD 27)

LATITUDE = 39°57'05.97" (39.951658)

LONGITUDE = 109°29'56.81" (109.499114)

## Kerr-McGee Oil & Gas Onshore LP

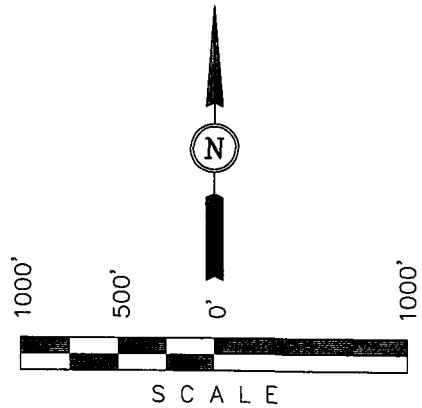
Well location, NBU #1021-13G, located as shown in the SW 1/4 NE 1/4 of Section 13, T10S, R21E, S.L.B.&M. Uintah County, Utah.

### BASIS OF ELEVATION

TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE, QUADRANGLE, UTAH, UINTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238 FEET.

### BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.




### CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

REVISED: 01-14-06


UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST – VERNAL, UTAH 84078
(435) 789-1017


| SCALE | DATE SURVEYED: | DATE DRAWN: |
|---|---|---|
| 1" = 1000' | 11-30-05 | 12-11-05 |
| PARTY: P.J. N.F. P.M. | REFERENCES: G.L.O. PLAT | |
| WEATHER: COLD | FILE: Kerr-McGee Oil & Gas Onshore LP | |

NBU 1021-13G
SENE SEC 13-T10S-R21E
UINTAH COUNTY, UTAH
ML-23608

# ONSHORE ORDER NO. 1

## *DRILLING PROGRAM*

1. **Estimated Tops of Important Geologic Markers:**

| Formation | Depth |
|---|---|
| Uinta | 0- Surface |
| Green River | 1400' |
| Wasatch | 4500' |
| Mesaverde | 7300' |
| TD | 9400' |

2. **Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:**

| Substance | Formation | Depth |
|---|---|---|
| | Green River | 1400' |
| Gas | Wasatch | 4500' |
| Gas | Mesaverde | 7300' |
| Water | N/A | |
| Other Minerals | N/A | |

3. **Pressure Control Equipment** (Schematic Attached)

*Please refer to the attached Drilling Program.*

4. **Proposed Casing & Cementing Program:**

*Please refer to the attached Drilling Program.*

5. **Drilling Fluids Program:**

*Please refer to the attached Drilling Program.*

6. **Evaluation Program:**

*Please refer to the attached Drilling Program.*

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 9400' TD, approximately equals 5828 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 3760 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

*Drilling is planned to commence immediately upon approval of this application.*

9. **Variances:**

*Please refer to the attached Drilling Program.*

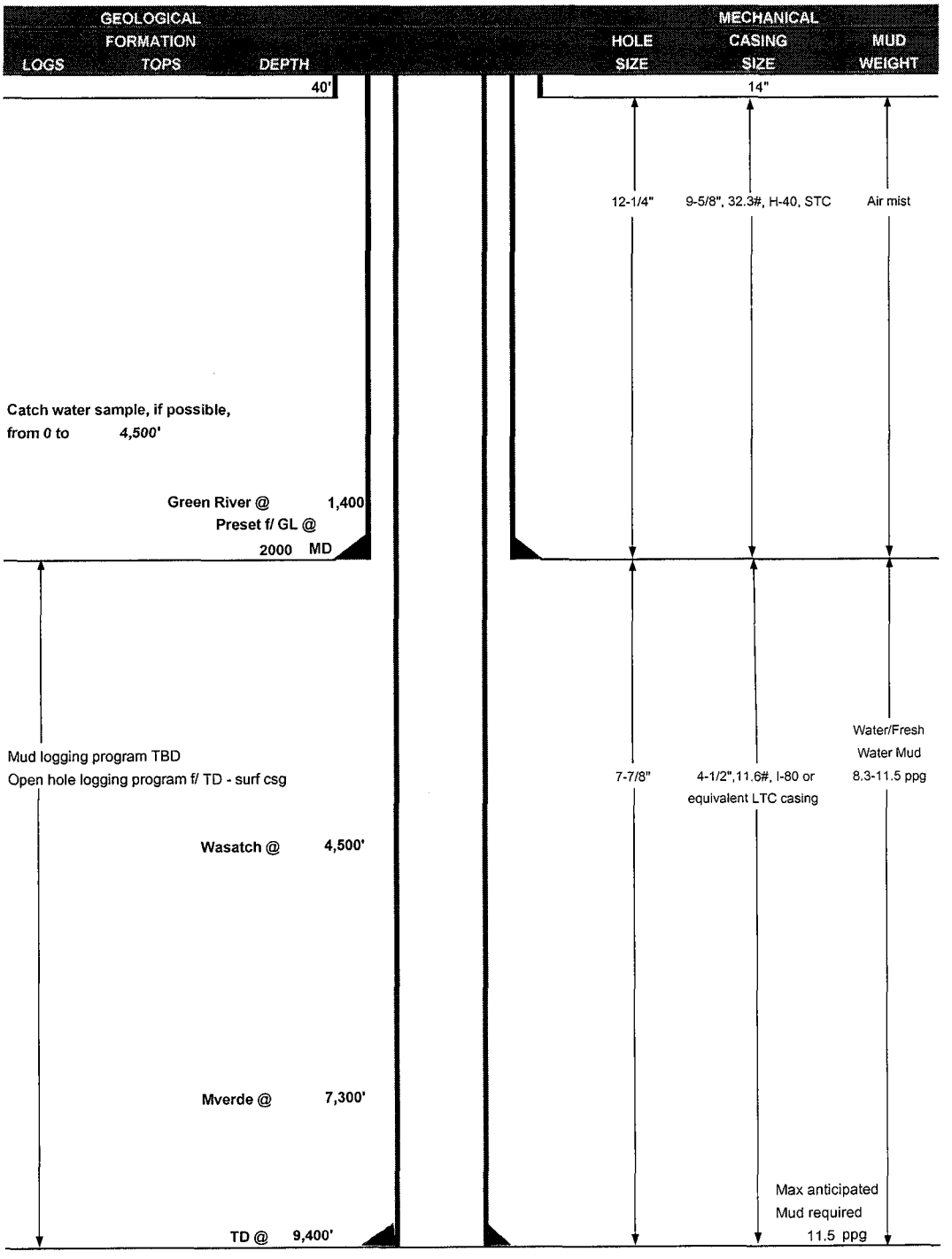
10. **Other Information:**

*Please refer to the attached Drilling Program.*

# Kerr-McGee Oil & Gas Onshore LP

## DRILLING PROGRAM

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| COMPANY NAME | Westport Oil and Gas Co., L.P. | | | DATE | December 27, 2005 | | |
| WELL NAME | **NBU 1021-13G** | | | TD | 9,400' MD/TVD | | |
| FIELD | *Natural Buttes* | COUNTY *Uintah* | STATE *Utah* | ELEVATION | 5,256' GL | KB 5,271' | |
| SURFACE LOCATION | SWNE SECTION 13-T10S-R21E 1444'FNL & 2651'FEL | | | | | BHL | Straight Hole |
| | Latitude: 39.951625 | Longitude: 109.499800 | | | | | |
| OBJECTIVE ZONE(S) | Wasatch/Mesaverde | | | | | | |
| ADDITIONAL INFO | Regulatory Agencies: BLM (SURF & MINERALS), UDOGM, Tri-County Health Dept. | | | | | | |



# Kerr-McGee Oil & Gas Onshore LP

## DRILLING PROGRAM

### CASING PROGRAM

| | SIZE | INTERVAL | WT. | GR. | CPLG. | DESIGN FACTORS BURST | COLLAPSE | TENSION |
|---|---|---|---|---|---|---|---|---|
| CONDUCTOR | 14" | 0-40' | | | | | | |
| | | | | | | 2270 | 1370 | 254000 |
| SURFACE | 9-5/8" | 0 to 2000 | 32.30 | H-40 | STC | 0.64******** | 1.46 | 4.49 |
| | | | | | | 7780 | 6350 | 201000 |
| PRODUCTION | 4-1/2" | 0 to 9400 | 11.60 | I-80 | LTC | 2.19 | 1.13 | 2.11 |

1) Max Anticipated Surf. Press.(MASP) (Surface Casing) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac gradient x TVD of next csg point)

2) MASP (Prod Casing) = Pore Pressure at TD - (.22 psi/ft-partial evac gradient x TD)

(Burst Assumptions: TD = 11.5 ppg) .22 psi/ft = gradient for partially evac wellbore

*(Collapse Assumption: Fully Evacuated Casing, Max MW)* *(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)*

MASP 3553 psi

********* Burst SF is low but csg is much stronger than formation at 2000'. EMW @ 2000' for 2270# is 21.8 ppg or 1.13 psi/ft

### CEMENT PROGRAM

| | | FT. OF FILL | DESCRIPTION | SACKS | EXCESS | WEIGHT | YIELD |
|---|---|---|---|---|---|---|---|
| SURFACE | LEAD | 500 | Premium cmt + 2% CaCl + .25 pps flocele | 215 | 60% | 15.60 | 1.18 |
| **Option 1** | TOP OUT CMT (1) | 200 | 20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele | 50 | | 15.60 | 1.18 |
| | TOP OUT CMT (2) | as required | Premium cmt + 2% CaCl | as req. | | 15.60 | 1.18 |
| SURFACE | | | **NOTE: If well will circulate water to surface, option 2 will be utilized** | | | | |
| **Option 2** | LEAD | 1500 | Prem cmt + 16% Gel + 10 pps gilsonite +.25 pps Flocele + 3% salt BWOC | 170 | 35% | 11.00 | 3.82 |
| | TAIL | 500 | Premium cmt + 2% CaCl + .25 pps flocele | 180 | 35% | 15.60 | 1.18 |
| | TOP OUT CMT | as required | Premium cmt + 2% CaCl | as req. | | 15.60 | 1.18 |
| PRODUCTION | LEAD | 4,000' | Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender | 440 | 60% | 11.00 | 3.38 |
| | TAIL | 5,400' | 50/50 Poz/G + 10% salt + 2% gel +.1% R-3 | 1510 | 60% | 14.30 | 1.31 |

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained

*Substitute caliper hole volume plus 15% excess for TAIL if accurate caliper is obtained

### FLOAT EQUIPMENT & CENTRALIZERS

| | |
|---|---|
| SURFACE | Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe. |
| | |
| PRODUCTION | Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers. |
| | |

### ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.

Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utililzed.

**DRILLING ENGINEER:** _____ **DATE:** _____

Brad Laney

**DRILLING SUPERINTENDENT:** _____ **DATE:** _____

Randy Bayne

**NBU 1021-13G**
**SWNE SEC 13-T10S-R21E**
**Uintah County, UT**
**ML-23608**

# ONSHORE ORDER NO. 1

## *MULTI-POINT SURFACE USE & OPERATIONS PLAN*

1. **Existing Roads:**

Refer to Topo Map A for directions to the location.

Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

Refer to Topo Maps A and B for location of access roads within a 2 mile radius.

All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.

2. **Planned Access Roads:**

Approximately 0.25 miles of new access road is proposed. Refer to Topo Map B for the location of the proposed access road.

The upgraded and new portions of the access road will be crowned and ditched with a running surface of 18 feet and a maximum disturbed width of 30 feet. Appropriate water control will be installed to control erosion.

***Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities were determined at the on-site.***

The access road was centerline flagged during time of staking.

Surfacing material may be necessary, depending upon weather conditions.

Surface disturbance and vehicular traffic will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.

3. **Location of Existing Wells Within a 1-Mile Radius**

Please refer to Topo Map C.

4. **Location of Existing & Proposed Facilities**

*The following guidelines will apply if the well is productive.*

All production facilities will be located on the disturbed portion of the well pad and at a minimum of 25 feet from the toe of the back slope or the top of the fill slope.

A dike will be constructed completely around those production facilities which contain

fluids (i.e., production tanks, produced water tanks, and/or heater/treater). These dikes will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank, and be independent of the back cut.

All permanent (on-site six months or longer) above the ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the five state Rocky Mountain Inter-Agency Committee.

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The required color is Carlsbad Canyon, standard color number 2.5Y 6/2.

Any necessary pits will be properly fenced to protect livestock and prevent wildlife entry.

Approximately 1430' of pipeline is proposed. Refer to Topo D for the proposed pipeline.

**5. Location and Type of Water Supply:**

Water for drilling purposes will be obtained from Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32, T4S, R3E, Water User Claim #43-8496, Application #53617.

Water will be hauled to location over the roads marked on Maps A and B.

No water well is to be drilled on this lease.

**6. Source of Construction Materials:**

Surface and subsoil materials in the immediate area will be utilized.

Any gravel will be obtained from a commercial source.

**7. Methods of Handling Waste Materials:**

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids, including salts and chemicals, will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be removed and disposed of at an approved waste disposal facility within 120 days after drilling is terminated.

The reserve pit will be constructed on the location and will not be located within natural drainage, where a flood hazard exists or surface runoff will destroy or damage the pit walls. The reserve pit will be constructed so that it will not leak, break, or allow discharge of liquids.

A plastic reinforced liner and felt will be used, it will be a minimum of 20 mil thick, with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash or scrap that could puncture the liner will be disposed of in the pit.

Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

A chemical porta-toilet will be furnished with the drilling rig.

Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. No trash will be burned on location.

All debris and other waste material not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig.

Any open pits will be fenced during the operations. The fencing will be maintained until such time as the pits are backfilled.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

Any produced water from the proposed well will be contained in a water tank and will then be hauled By truck to one of the pre-approved disposal sites: RNI, Sec. 5, T9S, R22E, NBU #159, Sec. 35, T9S, R21E, Ace Oilfield, Sec. 2, T6S, R20E, MC&MC, Sec. 12, T6S, R19E.

**8. Ancillary Facilities:**

None are anticipated.

**9. Well Site Layout:** (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

The reserve pit will be lined, and when the reserve pit is closed, the pit liner will be buried below plow depth.

All pits will be fenced according to the following minimum standards:

39 inch net wire will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.

The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.

Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.

Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

All wire shall be stretched, by using a stretching device, before it is attached to corner posts.

The reserve pit fencing will be on three sides during drilling operations, and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

Location size may change prior to the drilling of the well due to current rig availability. If the proposed location is not large enough to accommodate the drilling rig the location will be re-surveyed and a Form 9 shall be submitted.

**10. Plans for Reclamation of the Surface:**

*Producing Location:*

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, materials, trash, and debris not required for production.

Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1.

A plastic, nylon reinforced liner will be used, it shall be torn and perforated before backfilling of the reserve pit.

Before any dirt work associated with location restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 90 days from the date of well completion, weather permitting.

To prevent surface water (s) from standing (ponding) on the reclaimed reserve pit area, final reclamation of the reserve pit will consist of "mounding" the surface three feet above surrounding ground surface to allow the reclaimed pit area to drain effectively.

Upon completion of backfilling, leveling, and recontouring, the stockpiled topsoil will be spread evenly over the reclaimed area(s).

*Dry Hole/Abandoned Location:*

Abandoned well sites, roads, and other disturbed areas will be restored as near as practical to their original condition. Where applicable, these conditions include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions, and re-establishment of vegetation as specified.

All disturbed surfaces will be recontoured to the approximate natural contours, with reclamation of the well pad and access road to be performed as soon as practical after final abandonment. Reseeding operations will be performed after completion of other reclamation operations.

**11. Surface Ownership:**

SITLA
675 East 500 South, Suite 500
Salt Lake City, UT 84102

**12. Other Information:**

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, the approved Plan of Operations, and any applicable Notice of Lessees. The Operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

The Operator will control noxious weeds along Rights-Of-Way for roads, pipelines, well sites, or other applicable facilities.

A Class III archaeological survey has been completed and is attached.

This location is not within 460' from the boundary of the Natural Buttes Unit, nor is it Within 460' of any non-committed tract lying within the boundaries of the Unit.

**13. Lessee's or Operators's Representative & Certifcation:**

Debra Domenici
Associate Environmental Analyst
Kerr-McGee Oil & Gas Onshore LP
1368 South 1200 East.
Vernal, UT 84078
(435) 781-7060

Randy Bayne
Drilling Manager
Kerr-McGee Oil & Gas Onshore LP
1368 South 1200 East
Vernal, UT 84078
(435)781-7018

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by State Surety Bond #RLB0005236.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Debra Domenici

Debra Domenici

2/3/2006

Date

# Kerr-McGee Oil & Gas Onshore LP
## NBU #1021-13G
## SECTION 13, T10S, R21E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 11.2 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 6.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHEAST; TURN LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 1.6 MILES TO THE BEGINNING OF THE PROPOSED ACCESS FOR THE #1021-13C TO THE NORTHEAST; FOLLOW ROAD FLAGS IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.1 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY DIRECTION APPROXIMATELY 0.25 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 50.35 MILES.

# Kerr-McGee Oil & Gas Onshore LP

## NBU #1021-13G

**LOCATED IN UINTAH COUNTY, UTAH**
**SECTION 13, T10S, R21E, S.L.B.&M.**


**PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE** **CAMERA ANGLE: SOUTHERLY**


**PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS** **CAMERA ANGLE: EASTERLY**

- Since 1964 -
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

| LOCATION PHOTOS | 12 MONTH | 01 DAY | 05 YEAR | PHOTO |
|---|---|---|---|---|
| TAKEN BY: P.J. | DRAWN BY: C.P. | REVISED: 01-14-06 | | |

# Kerr-McGee Oil & Gas Onshore LP

## NBU #1021-13G

### PIPELINE ALIGNMENT

**LOCATED IN UINTAH COUNTY, UTAH**
**SECTION 13, T10S, R21E, S.L.B.&M.**

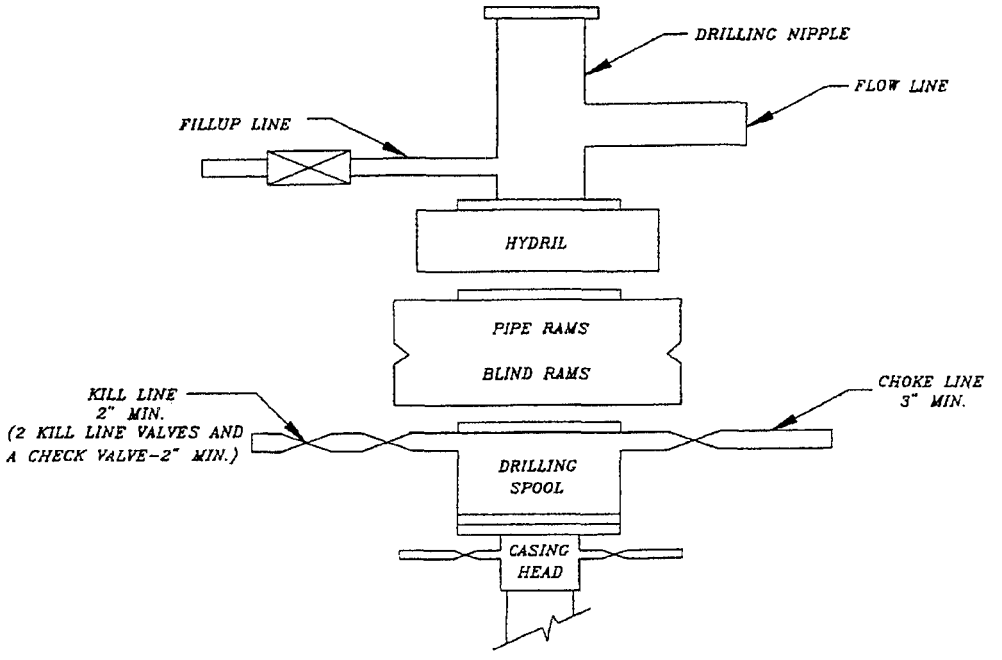

**PHOTO: VIEW FROM TIE-IN POINT** **CAMERA ANGLE: WESTERLY**

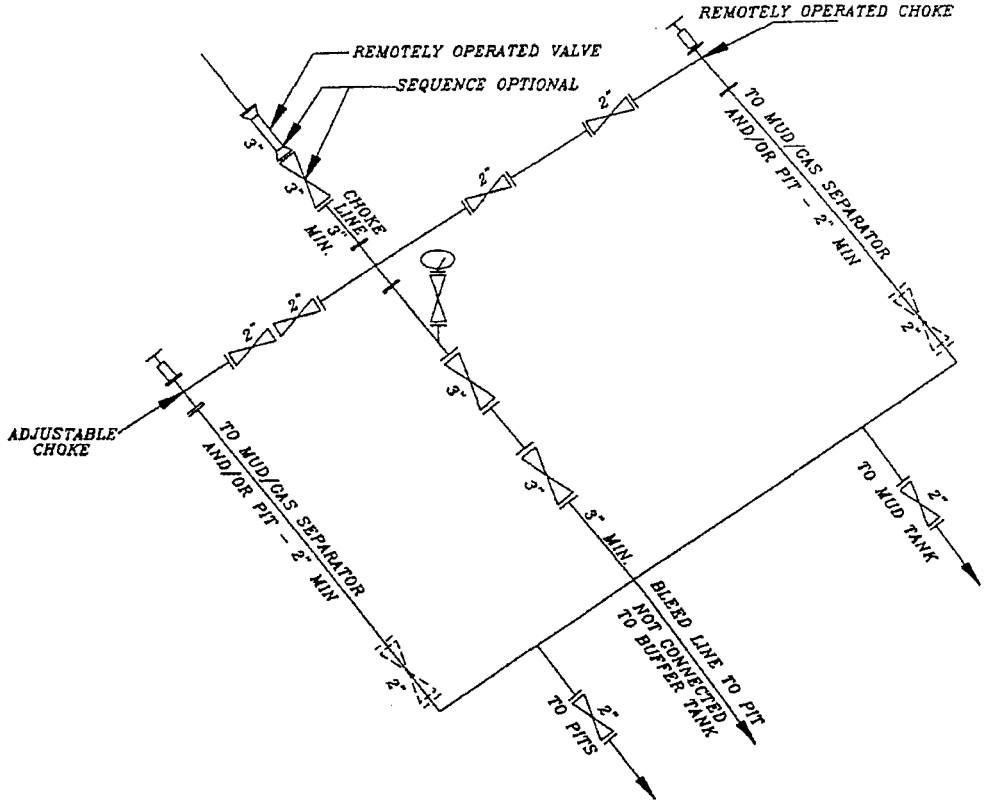
**PHOTO: VIEW OF PIPELINE ALIGNMENT** **CAMERA ANGLE: EASTERLY**

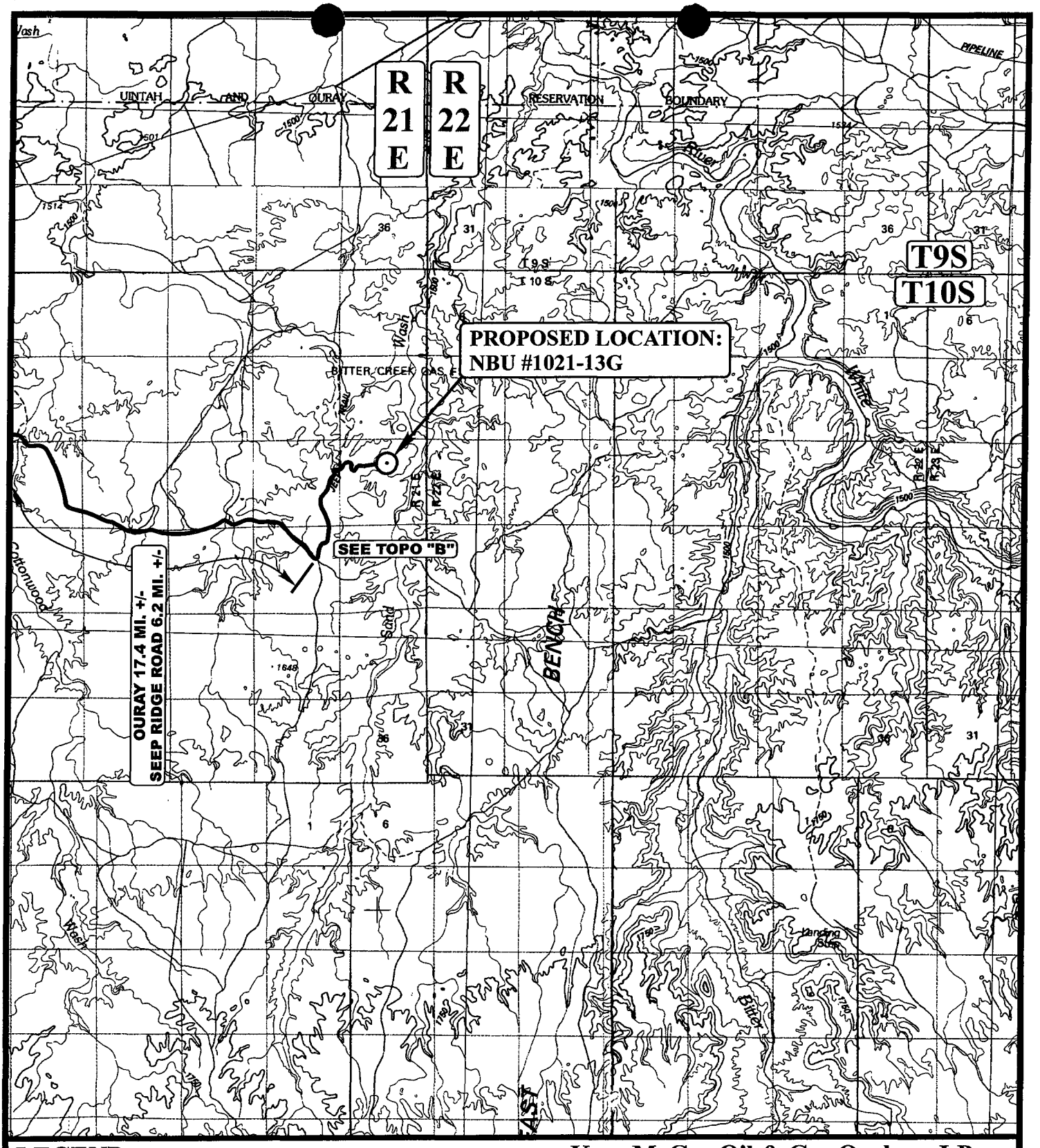
- Since 1964 -
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

| PIPELINE PHOTOS | 12 MONTH | 01 DAY | 05 YEAR | PHOTO |
|---|---|---|---|---|
| TAKEN BY: P.J. | DRAWN BY: C.P. | REVISED: 01-14-06 | | |

# 5M BOP STACK and CHOKE MANIFOLD SYSTEM






**LEGEND:**

⊙ PROPOSED LOCATION

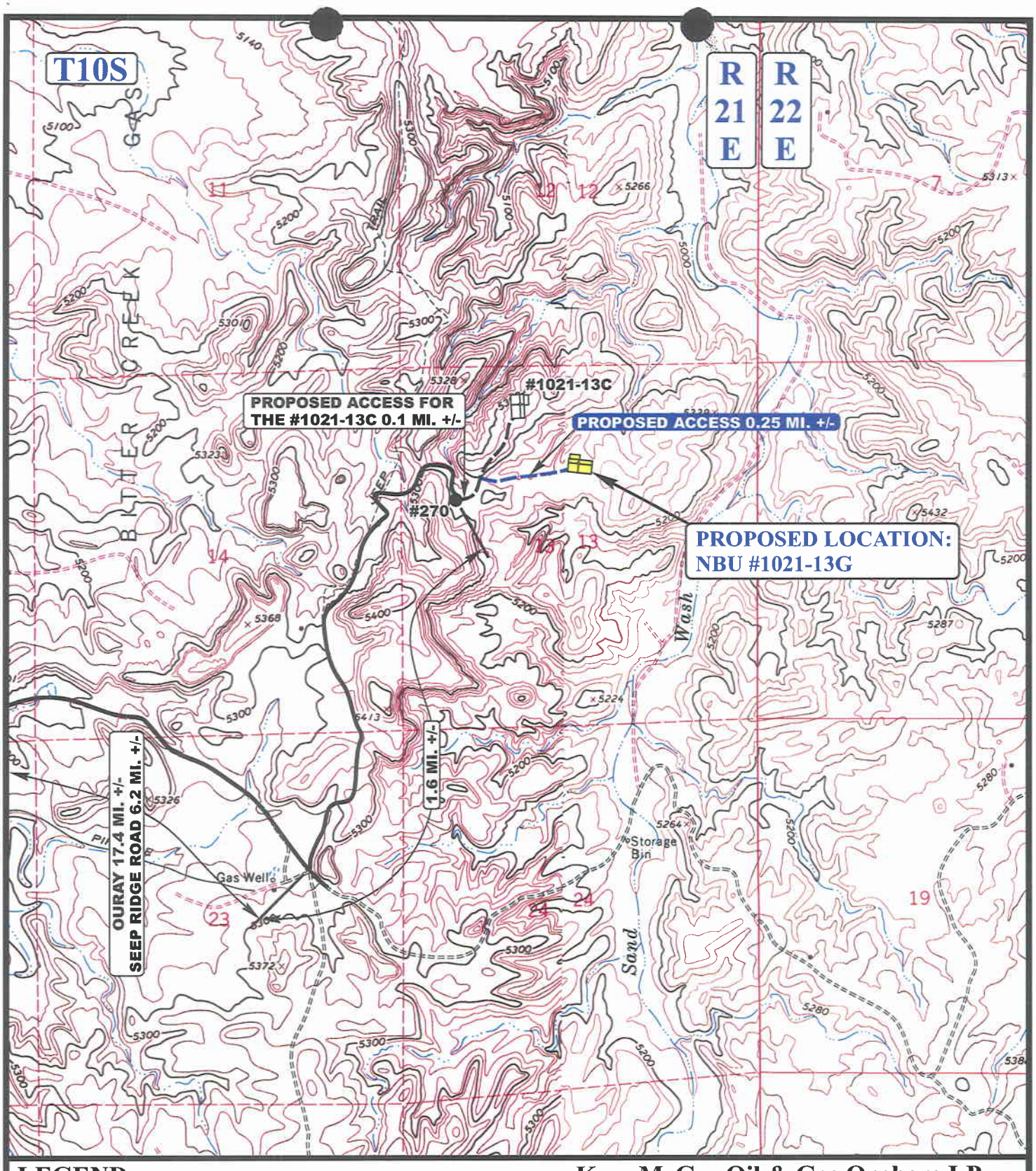
N

**Kerr-McGee Oil & Gas Onshore LP**

**NBU #1021-13G**
**SECTION 13, T10S, R21E, S.L.B.&M.**
**1444' FNL 2651' FEL**


Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813


| TOPOGRAPHIC MAP | 12 MONTH | 01 DAY | 05 YEAR | A TOPO |
|---|---|---|---|---|
| SCALE: 1:100,000 | DRAWN BY: C.P. | REVISED: 01-14-06 | | |




**LEGEND:**

EXISTING ROAD

PROPOSED ACCESS ROAD

N

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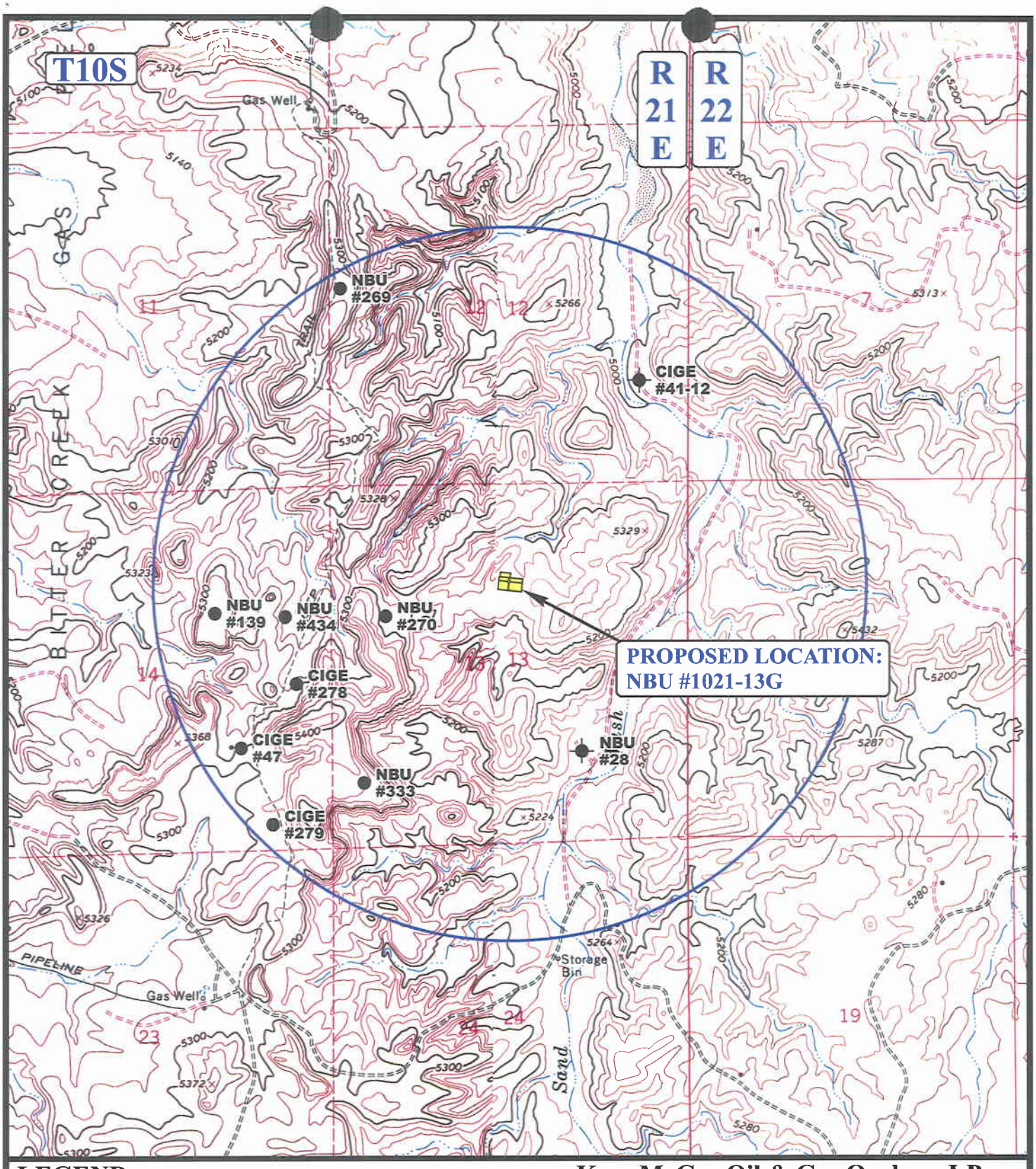
TOPOGRAPHIC MAP | 12 MONTH | 01 DAY | 05 YEAR | B TOPO

SCALE: 1" = 2000' | DRAWN BY: C.P. | REVISED: 01-14-06




## LEGEND:

- DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

N

**Kerr-McGee Oil & Gas Onshore LP**

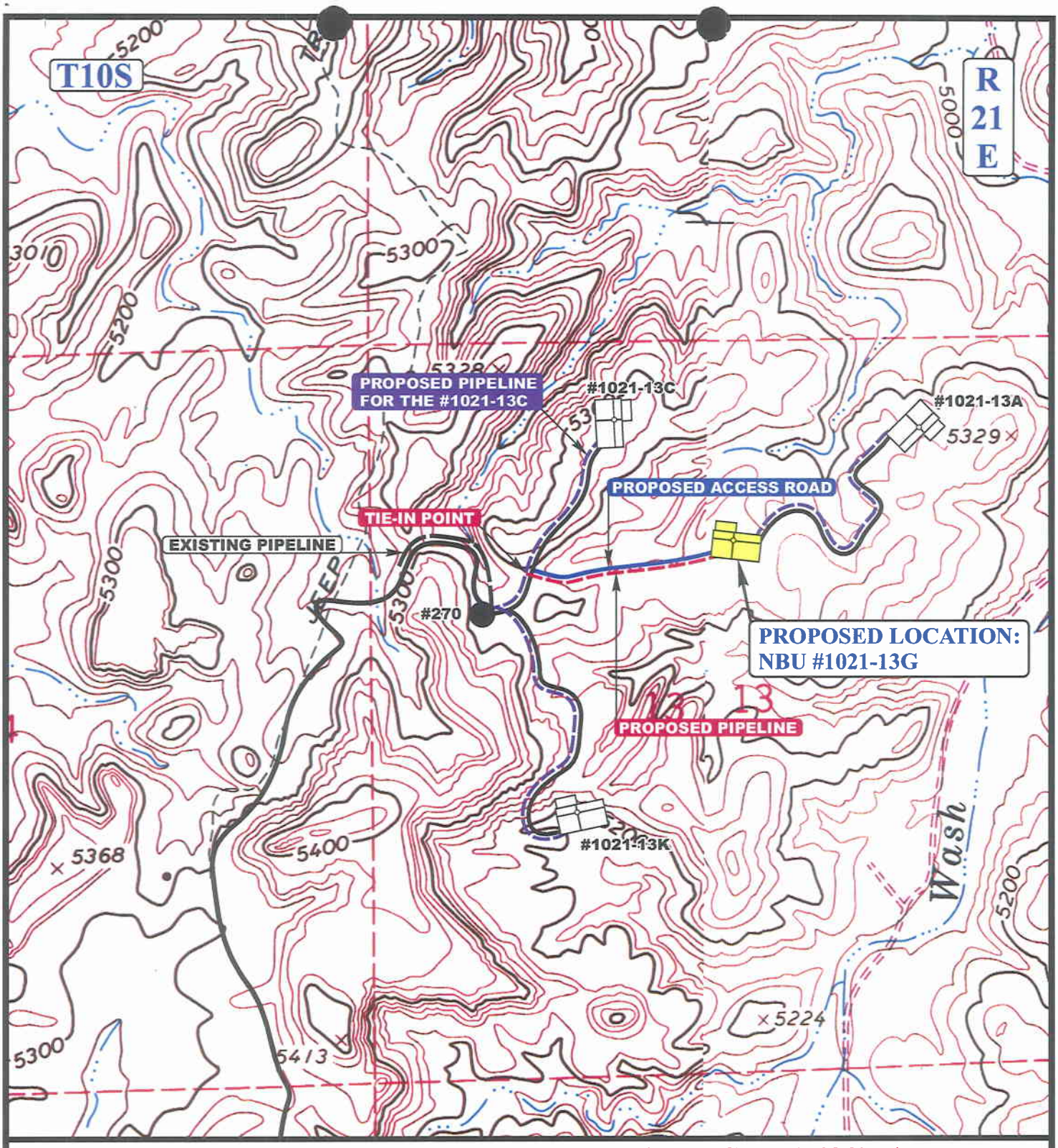
**NBU #1021-13G**
**SECTION 13, T10S, R21E, S.L.B.&M.**
**1444' FNL 2651' FEL**


**Uintah Engineering & Land Surveying**
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813


TOPOGRAPHIC MAP | 12 MONTH | 01 DAY | 05 YEAR

SCALE: 1" = 2000' | DRAWN BY: C.P. | REVISED: 01-14-06

C TOPO




APPROXIMATE TOTAL PIPELINE DISTANCE = 1,430' +/-

**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE
- PROPOSED PIPELINE (SERVICING OTHER WELLS)

N

**Kerr-McGee Oil & Gas Onshore LP**

NBU #1021-13G
SECTION 13, T10S, R21E, S.L.B.&M.
1444' FNL 2651' FEL


Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813


TOPOGRAPHIC MAP | 12 MONTH | 01 DAY | 05 YEAR

SCALE: 1" = 1000' | DRAWN BY: C.P. | REVISED: 01-14-06

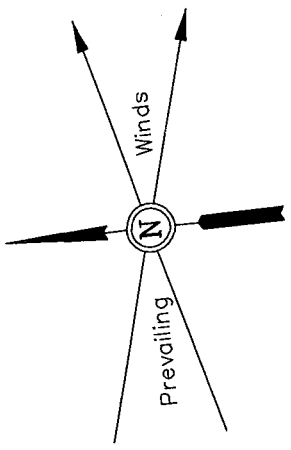
D TOPO

# Kerr-McGee Oil & Gas Onshore LP

FIGURE #1

## LOCATION LAYOUT FOR

NBU #1021-13G
SECTION 13, T10S, R21E, S.L.B.&M.
1444' FNL 2651' FEL




SCALE: 1" = 50'
DATE: 12-11-05
Drawn By: P.M.
Revised: 01-14-06

CONSTRUCT DIVERSION DITCH

C-1.6'
El. 56.5'

Proposed Access Road for the #1021-13A

6

C-6.0'
El. 60.9'

58'

7

C-7.4'
El. 62.3'

8

Sta. 3+50

Round Corners as Needed

200'

Topsoil Stockpile

Existing Drainage

REGISTERED LAND SURVEYOR
No. 161319
ROBERT L. KAY
STATE OF UTAH

NOTE:
Flare Pit is to be located a min. of 100' from the Well Head.

Approx. Toe of Fill Slope

PIPE TUBS

CATWALK

PIPE RACKS

Existing Drainage

Pit Topsoil

C-1.7'
El. 56.6'

FLARE PIT

D

C-1.1'
El. 56.0'

Blooie Line

C

El. 53.9'
C-9.0'
(btm. pit)

100'

10'

RIG

135'

Sta. 1+50

F-5.5'
El. 49.4'

5

58'

1

C-1.7'
El. 56.6'

MUD TANKS

DOG HOUSE

TOILET

TRAILER

LIGHT PLANT

BOILER

COMPRESSOR

PUMP HOUSE

WATER TANK

BOOSTER

RESERVE PITS
(10' Deep)

Total Pit Capacity
W/2' of Freeboard
= 15,490 Bbls. ±
Total Pit Volume
= 4,280 Cu. Yds.

1 1/2:1 Slope

150'

15' WIDE BENCH/DIKE

Reserve Pit Backfill & Spoils Stockpile

MUD TANKS

Sta. 0+50

TRASH

C-4.4'
El. 59.3'

150'

PROPANE STORAGE

B

A

10'

58'

3

C-3.7'
El. 58.6'

El. 58.1'
C-13.2'
(btm. pit)

15' WIDE BENCH

Sta. 0+00

4

2

Topsoil Stockpile

C-4.7'
El. 59.6'

Approx. Top of Cut Slope

Proposed Access Road

C-3.6'
El. 58.5'

## NOTES:

Elev. Ungraded Ground At Loc. Stake = 5256.0'

FINISHED GRADE ELEV. AT LOC. STAKE = 5254.9'


UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

# Kerr-McGee Oil & Gas Onshore LP

FIGURE #2

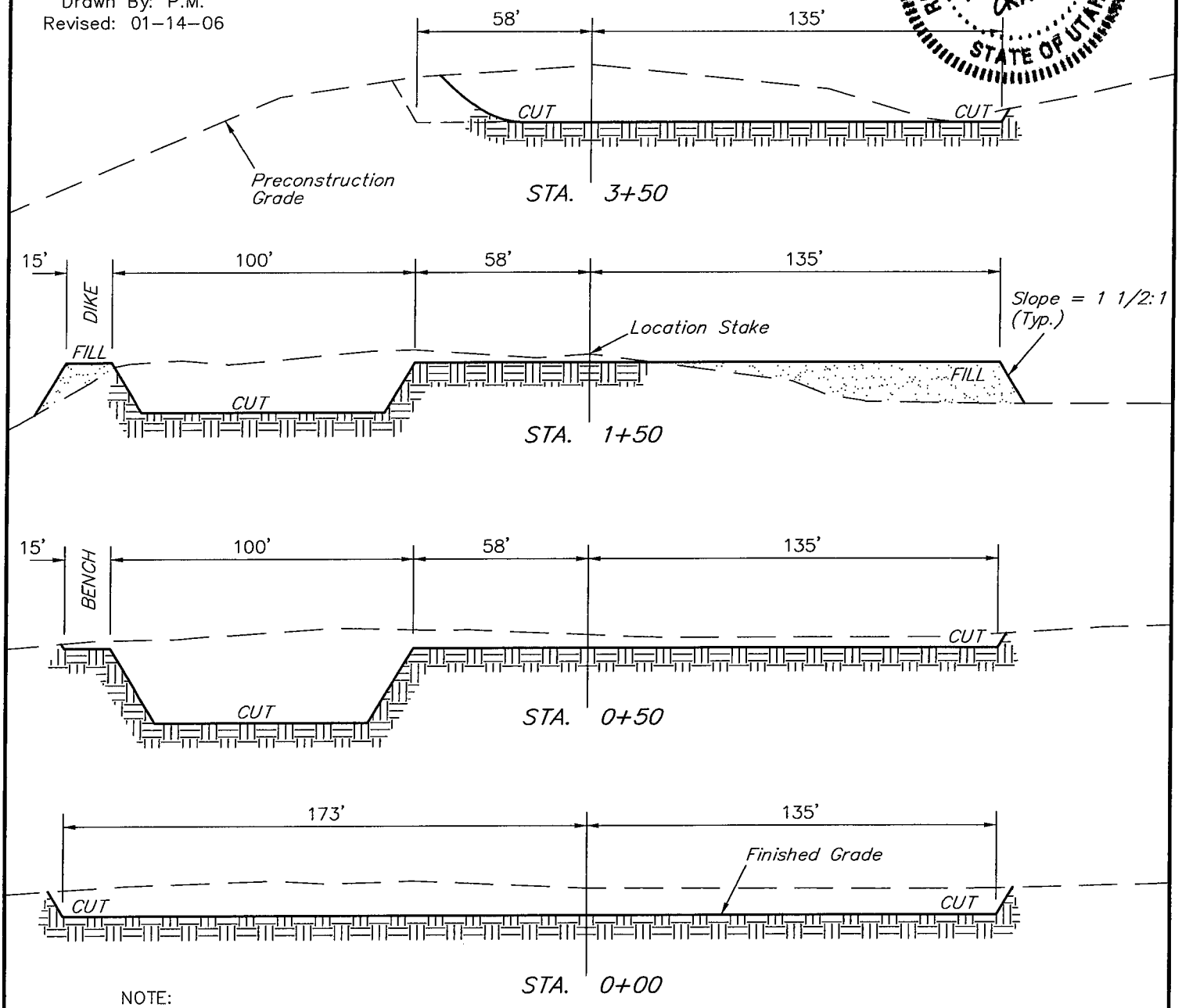
## TYPICAL CROSS SECTIONS FOR

NBU #1021-13G
SECTION 13, T10S, R21E, S.L.B.&M.
1444' FNL 2651' FEL

1" = 20'
X-Section Scale
1" = 50'

DATE: 12-11-05
Drawn By: P.M.
Revised: 01-14-06

REGISTERED LAND SURVEYOR No. 161319 ROBERT L. KAY STATE OF UTAH




NOTE:
Topsoil should not be Stripped Below Finished Grade on Substructure Area.

* NOTE:
FILL QUANTITY INCLUDES 5% FOR COMPACTION

## APPROXIMATE YARDAGES

CUT
(6") Topsoil Stripping = 1,830 Cu. Yds.
Remaining Location = 8,060 Cu. Yds.

TOTAL CUT = 9,890 CU.YDS.
FILL = 3,400 CU.YDS.

EXCESS MATERIAL = 6,490 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.) = 3,970 Cu. Yds.
EXCESS UNBALANCE (After Rehabilitation) = 2,520 Cu. Yds.


UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

# WORKSHEET
# APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 02/08/2006

API NO. ASSIGNED: 43-047-37723

WELL NAME: NBU 1021-13G

OPERATOR: WESTPORT OIL & GAS CO ( N2115 )

PHONE NUMBER: 435-781-7060

CONTACT: DEBRA DOMENICI

PROPOSED LOCATION:

SWNE 13 100S 210E

SURFACE: 1444 FNL 2651 FEL

BOTTOM: 1444 FNL 2651 FEL

COUNTY: UINTAH

LATITUDE: 39.95164 LONGITUDE: -109.4990

UTM SURF EASTINGS: 628223 NORTHINGS: 4423259

FIELD NAME: NATURAL BUTTES ( 630 )

| INSPECT LOCATN BY: / / | | |
|---|---|---|
| **Tech Review** | **Initials** | **Date** |
| Engineering | DKD | 3/14/06 |
| Geology | | |
| Surface | | |

LEASE TYPE: 3 - State

LEASE NUMBER: ML-23608

PROPOSED FORMATION: WSMVD

SURFACE OWNER: 3 - State

COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

✓ Plat

✓ Bond: Fed[] Ind[] Sta[] Fee[]
(No. RLB0005236 )

N Potash (Y/N)

Y Oil Shale 190-5 (B) or 190-3 or 190-13

✓ Water Permit
(No. 43-8496 )

N RDCC Review (Y/N)
(Date: )

NA Fee Surf Agreement (Y/N)

NA Intent to Commingle (Y/N)

LOCATION AND SITING:

___ R649-2-3.

Unit: NATURAL BUTTES

___ R649-3-2. General
Siting: 460 From Qtr/Qtr & 920' Between Wells

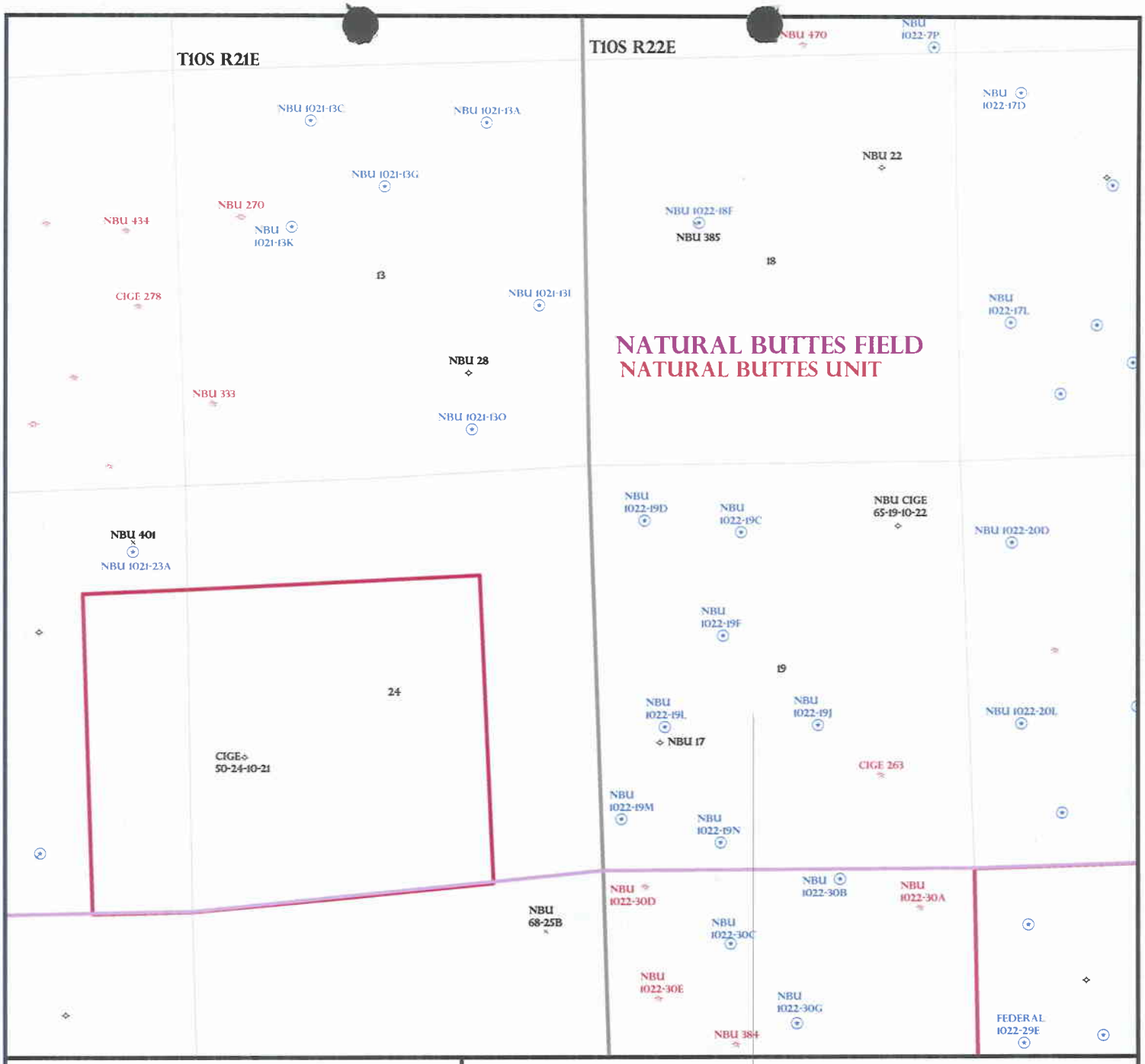
___ R649-3-3. Exception

✓ Drilling Unit
Board Cause No: 173-14
Eff Date: 12-2-1999
Siting: 460' fr Ubdry & uncon. Tract

___ R649-3-11. Directional Drill

COMMENTS: Need Permit (02-23-06)

STIPULATIONS: 1- Oil Shale
2- Statement of Basis
3- Surface Csg Cmt Stip




OPERATOR: WESTPORT O&G CO (N2115)

SEC: 19 T. 10S R. 22E

FIELD: NATURAL BUTTES (630)

COUNTY: UINTAH

CAUSE: 173-14 / 12-2-1999

Field Status
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

Unit Status
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Wells Status
- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL
- DRILLING

Utah Oil Gas and Mining

N
W E
S

PREPARED BY: DIANA WHITNEY
DATE: 13-FEBRUARY-2006

# DIVISION OF OIL, GAS AND MINING
## APPLICATION FOR PERMIT TO DRILL
## STATEMENT OF BASIS

***OPERATOR***: Westport Oil & Gas Company, L.P.
***WELL NAME & NUMBER***: NBU 1021-13G
***API NUMBER***: 43-047-37723
***LOCATION: 1/4,1/4*** SW/NE **Sec**: 13 ***TWP***: 10S ***RNG***: 21E ; 1444 FNL 2651'FEL

**Geology/Ground Water:**

Westport proposes to set 2,000' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 5,300'. A search of Division of Water Rights records shows one water well within a 10,000 foot radius of the center of Section 13. This well is over a mile from the proposed site. The well is owned by Target Trucking and is an oilfield water supply well. No depth for the well is listed. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The production casing cement should be brought above the base of the moderately saline groundwater to isolate it from fresher waters uphole.

**Reviewer:** Brad Hill **Date:** 03/06/06

**Surface:**

The pre-drill investigation of the surface was performed on February 23, 2006. Ed Bonner and Jim Davis of SITLA and Ben Williams of UDWR were invited to attend the presite on Feb.14, 2006. Mr. Davis and Mr. Williams attended.

The site is State Surface and State Mineral. The proposed location poses no obvious problems for drilling and appears to be the best location for drilling a well in the immediate area.

A paleontological survey was completed by IPC on 9/26/05 and furnished for the file. The access road leading to the site will be moved 5 meters to avoid a formation, which may contain paleontological resources.

Mr. Williams of the UDWR stated that the area is classified as critical yearlong antelope range, however he did not recommend any stipulations, as water is the limiting factor affecting the population not forage. The UDWR database shows a red tailed hawk nest in ledges south and east of the location. It is not known if it has had recently activity. He suggested a restriction period from 4/1-7/15 for road and pad construction, drilling and workover rigs. If Westport desires any of these activities during that period, he will check the nest to see if is or has had recent activity. No other wildlife are expected to be affected. He gave Mr. Davis and Mr. Estes copies of his write-up and a DWR recommended seed mix to use on the reserve pit and when closing the location.

**Reviewer:** Floyd Bartlett **Date:** 03/03/2006

**Conditions of Approval/Application for Permit to Drill:**

1. A synthetic liner with a minimum thickness of 16 mils with a felt sub-liner shall be properly installed and maintained in the reserve pit.

# ON-SITE PREDRILL EVALUATION
## Division of Oil, Gas and Mining

***OPERATOR***: Westport Oil & Gas Company, L.P.
***WELL NAME & NUMBER***: NBU 1021-13G
***API NUMBER***: 43-047-37723
***LEASE***: ML-23608 ***FIELD/UNIT***: Natural Buttes
***LOCATION: 1/4,1/4*** SW/NE ***Sec***: 13 ***TWP***: 10S ***RNG***: 21E ; 1444 FNL 2651'FEL
***LEGAL WELL SITING***: 460' from unit boundary and uncommitted tracts.
***GPS COORD (UTM)***: 4423259 Y 0628223 X ***SURFACE OWNER***: State of Utah (SITLA)

**PARTICIPANTS**

Floyd Bartlett and David Hackford (DOGM), Carol Estes, Debora Domenici, Clay Einerson (Westport), David Kay and Luke Kay (Uintah Engineering & Land Survey), Jim Davis (SITLA), Ben Williams (Utah Division of Wildlife Resources).

***REGIONAL/SETTING TOPOGRAPHY***

General area is the Sand Wash Drainage of Uintah, County. Sand Wash is approximately 36 air miles south of Vernal, Utah and approximately 19 miles southeast of Ouray, Utah. Access is by State of Utah Highway, Uintah County and oilfield development roads.

Topography is characterized by broad open flats dissected by numerous sub-drainages, which often become steep with ridges and draws with exposed sandstone layers. No perennial streams occur in drainage. Individual draws or washes are ephemeral with spring runoff or flows from sometimes-intense summer rainstorms. White River is to the northeast about 4 miles. No springs exist in the area. An occasional constructed pond occurs furnishing water for antelope or livestock.

This site is approximately ½ mile west of Sand Wash on a small saddle on a east-west running ridge. The ridge breaks sharply to the north and south. One short drainage originates within the location and will be covered with fill. No stabilization problems are likely to occur. Approximately 0.25 miles of new road will be constructed from the road planned for the NBU 1021-13C.

***SURFACE USE PLAN***

*CURRENT SURFACE USE:* Sheep grazing, limited hunting and recreation.

*PROPOSED SURFACE DISTURBANCE*: Location of 350'x 193' and a reserve pit of 100' x 150'x 10 feet deep and an additional 15' wide bench. Approximately 0.25 miles of new road will be required. All material for the location and road will be obtained onsite.

*LOCATION OF EXISTING WELLS WITHIN A 1 MILE RADIUS:* See attached map

from GIS data bas

*LOCATION OF PRODUCTION FACILITIES AND PIPELINES*: All production facilities will be on location and added after drilling well. Pipeline will follow access road.

*SOURCE OF CONSTRUCTION MATERIAL*: All construction material will be obtained from the site.

*ANCILLARY FACILITIES*: None will be required.

*WILL DRILLING AT THIS LOCATION GENERATE PUBLIC INTEREST CONCERNS? (EXPLAIN)*. Unlikely, as the general use in the area is oil-field related with numerous other wells in the surrounding area.

***WASTE MANAGEMENT PLAN:***

Drilled cuttings will be settled into reserve pit. Liquids from pit will be allowed to evaporate. Formation water will be confined to storage tanks. Commercial contractor will handle sewage facilities, storage and disposal. Trash will be contained in trash baskets and hauled to an approved land fill.

***ENVIRONMENTAL PARAMETERS***

*AFFECTED FLOODPLAINS AND/OR WETLANDS*: None.

*FLORA/FAUNA*: A moderate cover of desert type vegetation consisting of black sagebrush, shadscale, curly mesquite and cheat grass occupies the site. Antelope, rabbits, small reptiles, birds and mammals. Sheep graze the area in the winter.

*SOIL TYPE AND CHARACTERISTICS*: Sandy loam surface with a moderate amount of surface stones.

*EROSION/SEDIMENTATION/STABILITY*: Little natural erosion. Sedimentation and stability are not a problem and location construction shouldn't cause an increase in stability or erosion problems. One small drainage begins within the location and will be covered with fill.

*PALEONTOLOGICAL POTENTIAL*: Survey completed by IPC on 9/26/05 and furnished for the file. The access road leading to the site will be moved 5 meters to avoid a formation which may contain paleontological resources.

***RESERVE PIT***

*CHARACTERISTICS*: 100' by 150' and 10'deep. The reserve pit is all within cut on the north east side of the location. A 15' wide bench is planned around the outer edges and 2 ' of freeboard.

*LINER REQUIREMENTS (Site Ranking Form attached)*: Level 1 sensitivity. A 16 mil liner with a felt pad will be required for the reserve pit.

***SURFACE RESTORATION/RECLAMATION PLAN***

As per SITLA requirements.

***SURFACE AGREEMENT:***

As per SITLA requirements.

***CULTURAL RESOURCES/ARCHAEOLOGY:*** Site was surveyed by MOAC on 10/03/05. A copy has been furnished to SITLA.

***OTHER OBSERVATIONS/COMMENTS***

Ben Williams of the UDWR stated that the area is classified as critical yearlong antelope range, however he did not recommend any stipulations, as water is the limiting factor affecting the population not forage. The UDWR database shows a red tailed hawk nest in ledges south and east of the location. It is not known if it has had recently activity. He suggested a restriction period from 4/1-7/15 for road and pad construction, drilling and workover rigs. If Westport desires any of these activities during that period, he will check the nest to see if is or has had recent activity.

This predrill investigation was conducted on a cool sunny day.

***ATTACHMENTS***

Photos of this site were taken and placed on file.

FLOYD BARTLETT
DOGM REPRESENTATIVE

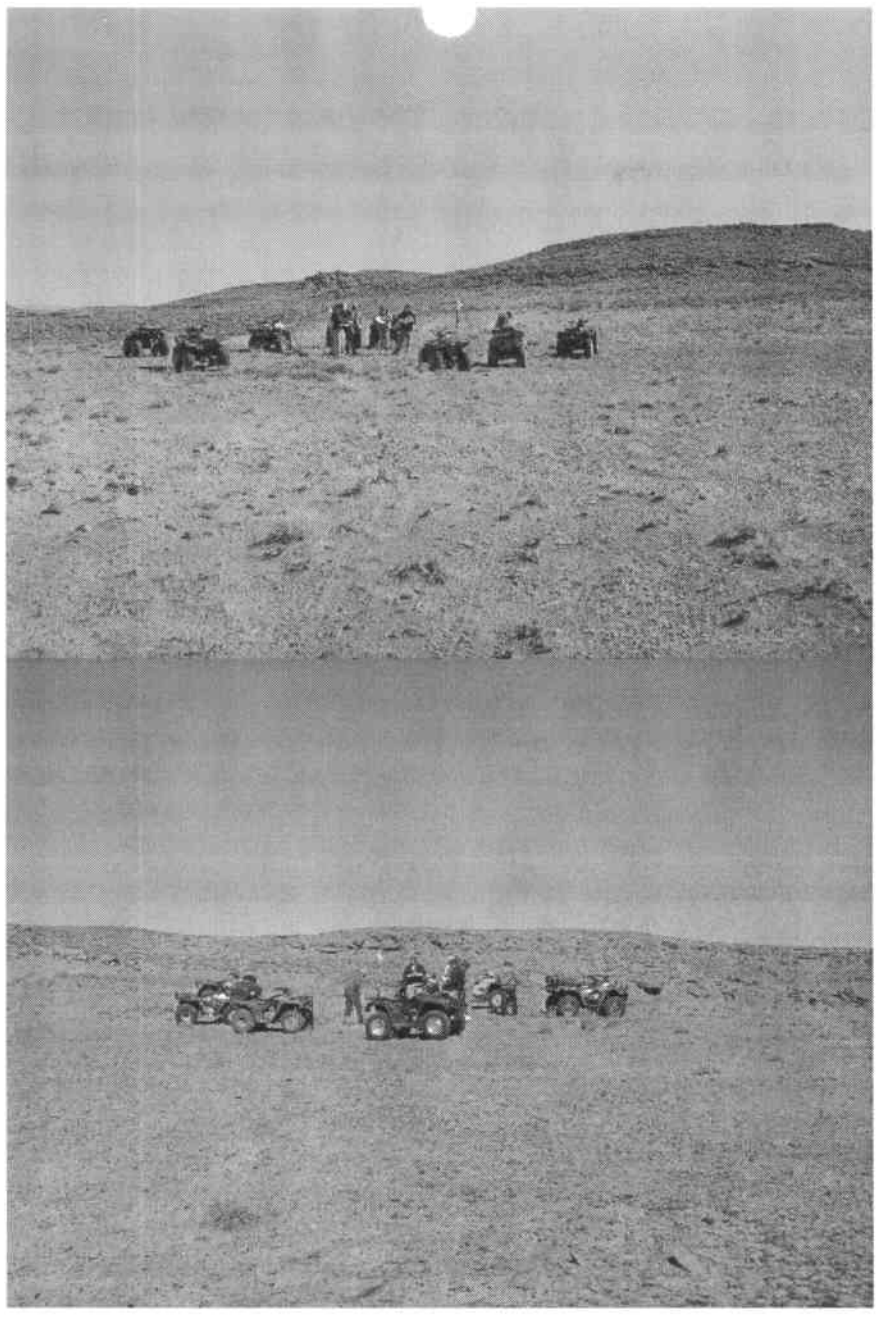
02/23/06; 10:00 AM
DATE/TIME

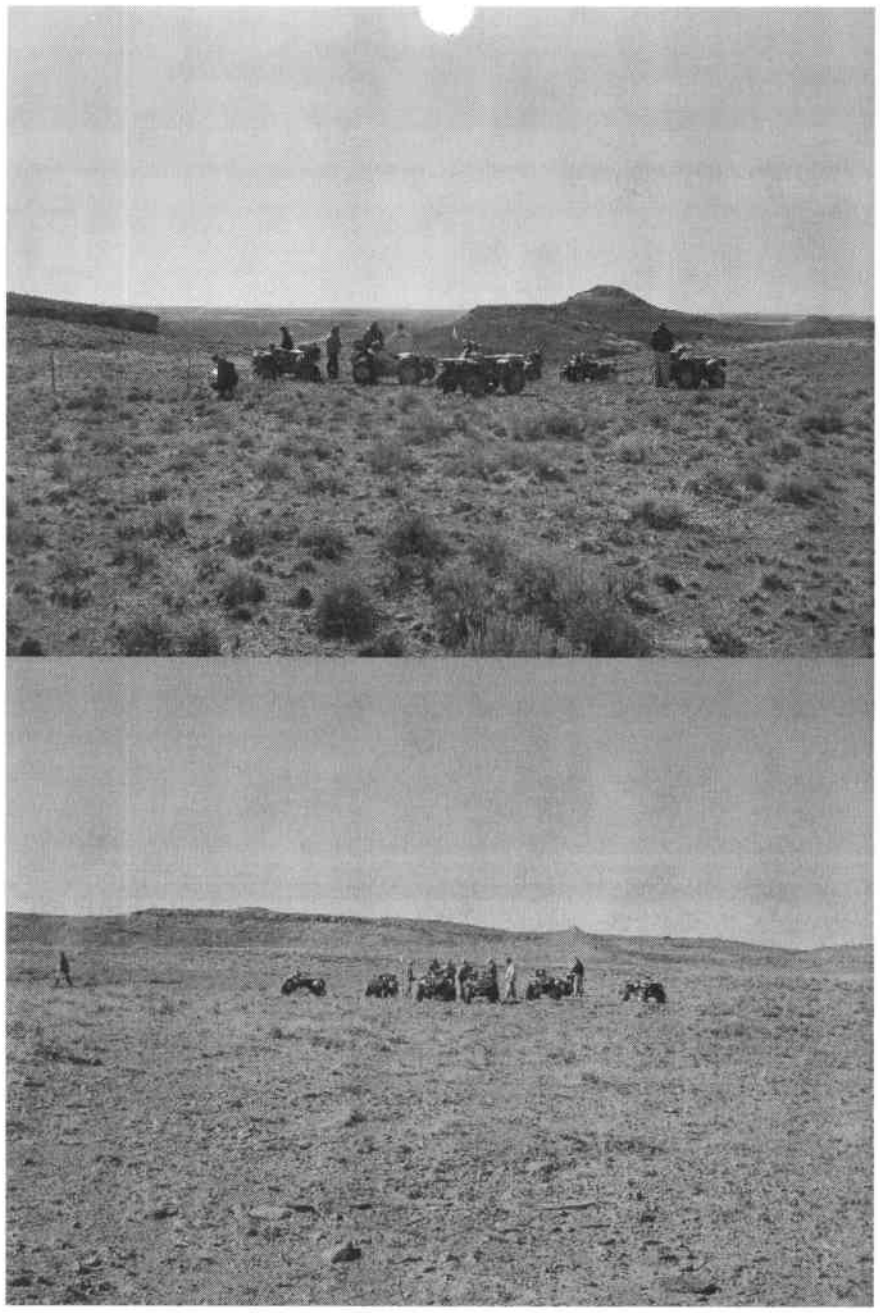
## [redacted]luation Ranking Criteria and Ranking [redacted]re
## For Reserve and Onsite Pit Liner Requirements

| Site-Specific Factors | Ranking | Site Ranking |
|---|---|---|
| Distance to Groundwater (feet) | | |
| >200 | 0 | |
| 100 to 200 | 5 | |
| 75 to 100 | 10 | |
| 25 to 75 | 15 | |
| <25 or recharge area | 20 | 0 |
| Distance to Surf. Water (feet) | | |
| >1000 | 0 | |
| 300 to 1000 | 2 | |
| 200 to 300 | 10 | |
| 100 to 200 | 15 | |
| < 100 | 20 | |
| Distance to Nearest Municipal Well (feet) | | |
| >5280 | 0 | |
| 1320 to 5280 | 5 | |
| 500 to 1320 | 10 | |
| <500 | 20 | 0 |
| Distance to Other Wells (feet) | | |
| >1320 | 0 | |
| 300 to 1320 | 10 | |
| <300 | 20 | 10 |
| Native Soil Type | | |
| Low permeability | 0 | |
| Mod. permeability | 10 | |
| High permeability | 20 | 10 |
| Fluid Type | | |
| Air/mist | 0 | |
| Fresh Water | 5 | |
| TDS >5000 and <10000 | 10 | |
| TDS >10000 or Oil Base Mud Fluid containing significant levels of hazardous constituents | 15<br>20 | 5 |
| Drill Cuttings | | |
| Normal Rock | 0 | |
| Salt or detrimental | 10 | 0 |
| Annual Precipitation (inches) | | |
| <10 | 0 | |
| 10 to 20 | 5 | |
| >20 | 10 | 0 |
| Affected Populations | | |
| <10 | 0 | |
| 10 to 30 | 6 | |
| 30 to 50 | 8 | |
| >50 | 10 | 0 |
| Presence of Nearby Utility Conduits | | |
| Not Present | 0 | |
| Unknown | 10 | |
| Present | 15 | 0 |

**Final Score** 25 (Level I Sensitivity)

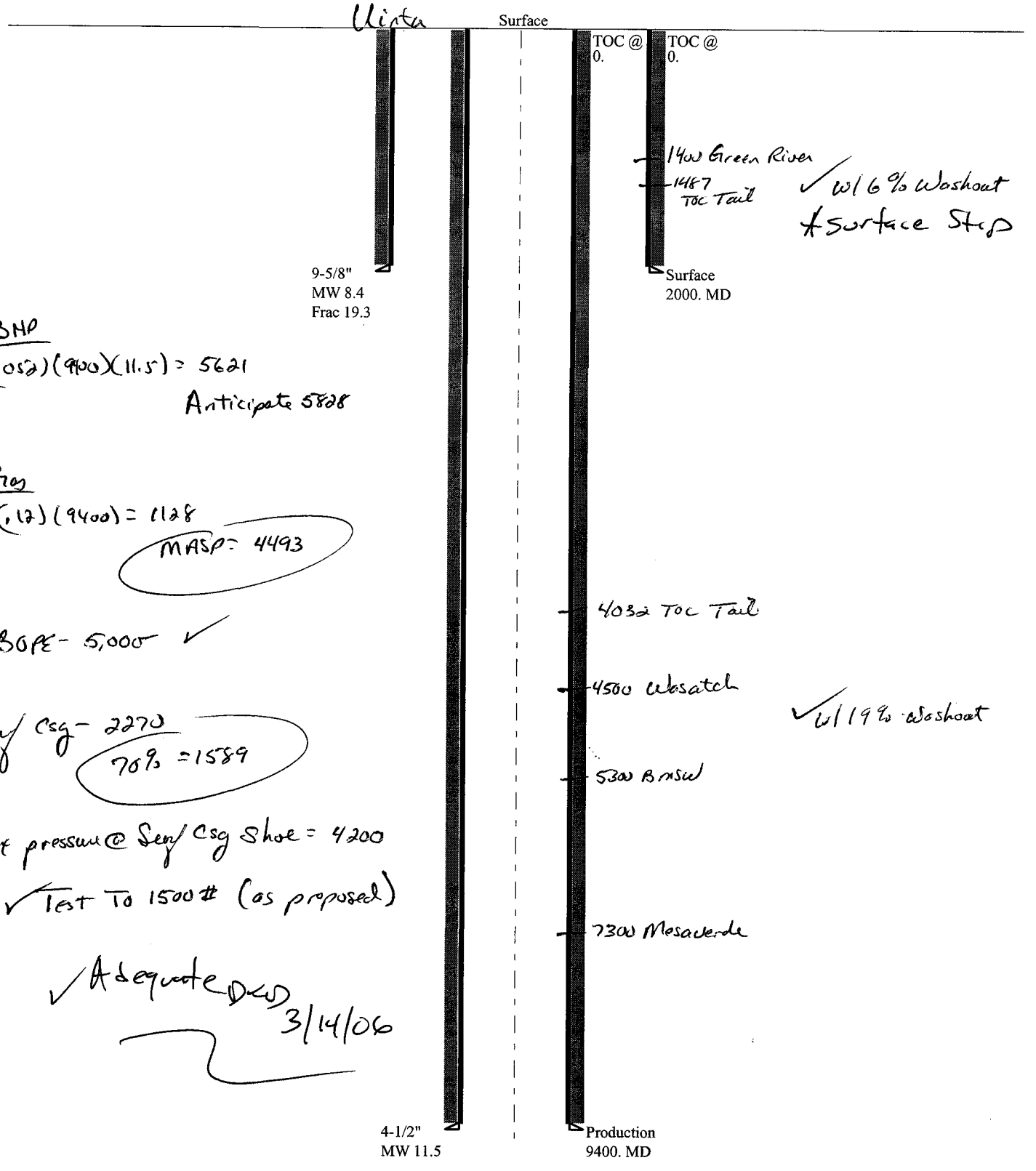
Sensitivity Level I = 20 or more; total containment is required.
Sensitivity Level I = 15-19; lining is discretionary.
Sensitivity Level II = below 15; no specific lining is required.





# 03-06 Westport NBU 1021-3G

Casing Schematic




BHP

(.052)(9400)(11.5) = 5621

Anticipate 5828

Grad

(.12)(9400) = 1128

MASP = 4493

BOPE - 5,000 ✓

Surf csg - 2270

70% = 1589

Max pressure @ Surf csg shoe = 4200

✓ Test To 1500# (as proposed)

✓ Adequate DKD 3/14/06

| | |
|---|---|
| Well name: | **03-06 Westport NBU 1021-13G** |
| Operator: | **Westport Oil & Gas** |
| String type: | Surface |
| Project ID: | 43-047-37723 |
| Location: | Uintah County, Utah |

**Design parameters:**

**Collapse**
Mud weight: 8.400 ppg
Design is based on evacuated pipe.

**Burst**
Max anticipated surface pressure: 1,760 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,000 psi

No backup mud specified.

**Minimum design factors:**

**Collapse:**
Design factor 1.125

**Burst:**
Design factor 1.00

**Tension:**
8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on buoyed weight.
Neutral point: 1,753 ft

**Environment:**
H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 103 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,500 ft

Cement top: Surface

Non-directional string.

**Re subsequent strings:**
Next setting depth: 9,400 ft
Next mud weight: 11.500 ppg
Next setting BHP: 5,616 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,000 ft
Injection pressure 2,000 psi

| Run Seq | Segment Length (ft) | Size (in) | Nominal Weight (lbs/ft) | Grade | End Finish | True Vert Depth (ft) | Measured Depth (ft) | Drift Diameter (in) | Internal Capacity ($ft^3$) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 2000 | 9.625 | 32.30 | H-40 | ST&C | 2000 | 2000 | 8.876 | 126.8 |

| Run Seq | Collapse Load (psi) | Collapse Strength (psi) | Collapse Design Factor | Burst Load (psi) | Burst Strength (psi) | Burst Design Factor | Tension Load (Kips) | Tension Strength (Kips) | Tension Design Factor |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 873 | 1370 | 1.570 | 2000 | 2270 | 1.14 | 57 | 254 | 4.49 J |

Prepared by: Clinton Dworshak, Utah Div. of Oil & Mining
Phone: (810) 538-5280
FAX: (801) 359-3940
Date: March 7,2006
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 2000 ft, a mud weight of 8.4 ppg The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

| | |
|---|---|
| Well name: | **03-06 Westport NBU 1021-13G** |
| Operator: | **Westport Oil & Gas** |
| String type: | Production |
| Project ID: | 43-047-37723 |
| Location: | Uintah County, Utah |

**Design parameters:**

**Collapse**

Mud weight: 11.500 ppg
Design is based on evacuated pipe.

**Burst**

Max anticipated surface pressure: 4,488 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 5,616 psi

No backup mud specified.

**Minimum design factors:**

**Collapse:**

Design factor 1.125

**Burst:**

Design factor 1.00

**Tension:**

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on buoyed weight.
Neutral point: 7,784 ft

**Environment:**

H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 207 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,500 ft

Cement top: Surface

Non-directional string.

| Run Seq | Segment Length (ft) | Size (in) | Nominal Weight (lbs/ft) | Grade | End Finish | True Vert Depth (ft) | Measured Depth (ft) | Drift Diameter (in) | Internal Capacity ($ft^3$) |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 9400 | 4.5 | 11.60 | M-80 | LT&C | 9400 | 9400 | 3.875 | 217.9 |

| Run Seq | Collapse Load (psi) | Collapse Strength (psi) | Collapse Design Factor | Burst Load (psi) | Burst Strength (psi) | Burst Design Factor | Tension Load (Kips) | Tension Strength (Kips) | Tension Design Factor |
|---|---|---|---|---|---|---|---|---|---|
| 1 | 5616 | 6350 | 1.131 | 5616 | 7780 | 1.39 | 90 | 267 | 2.96 B |

Prepared by: Clinton Dworshak, Utah Div. of Oil & Mining
Phone: (810) 538-5280
FAX: (801) 359-3940
Date: March 7,2006
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 9400 ft, a mud weight of 11.5 ppg The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

*Engineering responsibility for use of this design will be that of the purchaser.*

**From:** Ed Bonner
**To:** Whitney, Diana
**Date:** 2/15/2006 3:57:43 PM
**Subject:** Well Clearance

The following wells have been given cultural resource clearance by the Trust Lands Cultural Resources Group:

EOG Resources, Inc
NBU 556-18E
NBU 557-18E

Summit Operating, LLC
State 16-32-13-22
State 8-32-13-22
State 6-36-13-22
State 4-36-13-22

Westport Oil & Gas Company
NBU 1021-28G
NBU 1021-28O (APD has name as **State 1021-28O**) One significant site which must be avoided
NBU 1021-13A
NBU 1021-13C
NBU 1021-13G
NBU 1021-13I
NBU 1021-13K
NBU 1021-13O

Wind River II Corporation
Snowshoe 2-15-16-22

If you have any questions regarding this matter please give me a call.

**CC:** Garrison, LaVonne; Hill, Brad; Hunt, Gil

# United States Department of the Interior

## BUREAU OF LAND MANAGEMENT

**Utah State Office**
**P.O. Box 45155**
**Salt Lake City, Utah 84145-0155**

**IN REPLY REFER TO:**
**3160**
**(UT-922)**

March 2, 2006

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2006 Plan of Development Natural Buttes Unit Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2006 within the Natural Buttes Unit, Uintah County, Utah.

| API # | WELL NAME | LOCATION |
|---|---|---|
| (Proposed PZ Wasatch-MesaVerde) | | |
| 43-047-37738 | NBU 1022-19F | Sec 19 T10S R22E 2239 FNL 1622 FWL |
| 43-047-37739 | NBU 1022-19D | Sec 19 T10S R22E 0732 FNL 0640 FWL |
| 43-047-37740 | NBU 1022-19C | Sec 19 T10S R22E 0896 FNL 1891 FWL |
| 43-047-37765 | NBU 1022-16J | Sec 16 T10S R22E 2302 FSL 1901 FEL |
| 43-047-37766 | NBU 1022-16P | Sec 16 T10S R22E 0724 FSL 0973 FEL |
| 43-047-37767 | NBU 1022-16L | Sec 16 T10S R22E 1904 FSL 0343 FWL |
| 43-047-37768 | NBU 1022-18H | Sec 18 T10S R22E 1947 FNL 0465 FEL |
| 43-047-37769 | NBU 1022-18G | Sec 18 T10S R22E 1870 FNL 1383 FEL |
| 43-047-37770 | NBU 1022-18I | Sec 18 T10S R22E 1592 FSL 0803 FEL |
| 43-047-37771 | NBU 1022-18E | Sec 18 T10S R22E 1656 FNL 0606 FWL |
| 43-047-37772 | NBU 1022-18J | Sec 18 T10S R22E 2158 FSL 2171 FEL |
| 43-047-37773 | NBU 1022-18N | Sec 18 T10S R22E 0125 FSL 1249 FWL |
| 43-047-37774 | NBU 1022-18B | Sec 18 T10S R22E 0818 FNL 2040 FEL |
| 43-047-37775 | NBU 1022-18P | Sec 18 T10S R22E 0169 FSL 0249 FEL |
| 43-047-37776 | NBU 1022-18D | Sec 18 T10S R22E 0765 FNL 0311 FWL |
| 43-047-37777 | NBU 1022-18O | Sec 18 T10S R22E 0134 FSL 2445 FEL |
| 43-047-37783 | NBU 1022-19K | Sec 19 T10S R22E 1509 FSL 1427 FWL |
| 43-047-37778 | NBU 1022-19H | Sec 19 T10S R22E 2298 FNL 1086 FEL |
| 43-047-37779 | NBU 1022-19B | Sec 19 T10S R22E 0696 FNL 2180 FEL |
| 43-047-37780 | NBU 1022-19G | Sec 19 T10S R22E 2069 FNL 2241 FEL |
| 43-047-37781 | NBU 1022-19I | Sec 19 T10S R22E 2135 FSL 0460 FEL |
| 43-047-37782 | NBU 1022-19O | Sec 19 T10S R22E 0740 FSL 2065 FEL |
| 43-047-37734 | NBU 1021-27E | Sec 27 T10S R21E 1862 FNL 0535 FWL |
| 43-047-37728 | NBU 1021-28G | Sec 28 T10S R21E 1952 FNL 1971 FEL |
| 43-047-37721 | NBU 1021-13C | Sec 13 T10S R21E 0576 FNL 1772 FWL |
| 43-047-37722 | NBU 1021-13A | Sec 13 T10S R21E 0651 FNL 1311 FEL |

| | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| 43-047-37723 | NBU 1021-13G | Sec | 13 | T10S | R21E | 1444 | FNL | 2651 FEL |
| 43-047-37724 | NBU 1021-13K | Sec | 13 | T10S | R21E | 1935 | FSL | 1486 FWL |
| 43-047-37725 | NBU 1021-13I | Sec | 13 | T10S | R21E | 2353 | FSL | 0668 FEL |
| 43-047-37727 | NBU 1021-13O | Sec | 13 | T10S | R21E | 0777 | FSL | 1573 FEL |
| 43-047-37761 | NBU 920-20P | Sec | 20 | T09S | R20E | 0769 | FSL | 0978 FEL |
| 43-047-37760 | NBU 920-20O | Sec | 20 | T09S | R20E | 0842 | FSL | 1913 FEL |
| 43-047-37759 | NBU 920-20N | Sec | 20 | T09S | R20E | 0803 | FSL | 1885 FWL |
| 43-047-37758 | NBU 920-20M | Sec | 20 | T09S | R20E | 0630 | FSL | 0838 FWL |
| 43-047-37757 | NBU 920-20L | Sec | 20 | T09S | R20E | 2104 | FSL | 0827 FWL |
| 43-047-37756 | NBU 920-20J | Sec | 20 | T09S | R20E | 1466 | FSL | 1653 FEL |
| 43-047-37755 | NBU 920-20I | Sec | 20 | T09S | R20E | 1955 | FSL | 0717 FEL |
| 43-047-37732 | NBU 920-22E | Sec | 22 | T09S | R20E | 2009 | FNL | 0756 FWL |
| 43-047-37764 | NBU 920-24M | Sec | 24 | T09S | R20E | 0614 | FSL | 0851 FWL |
| 43-047-37753 | NBU 920-14M | Sec | 14 | T09S | R20E | 0536 | FSL | 0612 FWL |
| 43-047-37754 | NBU 920-14N | Sec | 14 | T09S | R20E | 0732 | FSL | 1805 FWL |

This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

bcc: File – Natural Buttes Unit
Division of Oil Gas and Mining
Central Files

State of Utah

Department of Natural Resources

MICHAEL R. STYLER
*Executive Director*

Division of Oil, Gas & Mining

JOHN R. BAZA
*Division Director*

JON M. HUNTSMAN, JR.
*Governor*

GARY R. HERBERT
*Lieutenant Governor*

March 15, 2006

Westport Oil & Gas Company, LP
1368 S 1200 E
Vernal, UT 84078

Re: Natural Buttes Unit 1021-13G Well, 1444' FNL, 2651' FEL, SW NE, Sec. 13, T. 10 South, R. 21 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann.§ 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date. The API identification number assigned to this well is 43-047-37723.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: Uintah County Assessor
SITLA
Bureau of Land Management, Vernal District Office

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • *www.ogm.utah.gov*

**Operator:** Westport Oil & Gas Company, LP

**Well Name & Number** Natural Buttes Unit 1021-13G

**API Number:** 43-047-37723

**Lease:** ML-23608

**Location:** SW NE **Sec.** 13 **T.** 10 South **R.** 21 East

**Conditions of Approval**

1. **General**
   Compliance with the requirements of Utah Admin. R. 649-1 *et seq.*, the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

2. **Notification Requirements**
   The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:
   - 24 hours prior to cementing or testing casing
   - 24 hours prior to testing blowout prevention equipment
   - 24 hours prior to spudding the well
   - within 24 hours of any emergency changes made to the approved drilling program
   - prior to commencing operations to plug and abandon the well

   The following are Division of Oil, Gas and Mining contacts and their work telephone numbers (please leave a voice mail message if the person is not available to take the call):
   - Dan Jarvis at (801) 538-5338
   - Carol Daniels at (801) 538-5284 (spud)

3. **Reporting Requirements**
   All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.

5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)

6. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.

7. Surface casing shall be cemented to the surface.

FORM 9

**STATE OF UTAH**
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-23608

# SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES UNIT

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER

8. WELL NAME and NUMBER: NBU 1021-13G

2. NAME OF OPERATOR: WESTPORT OIL & GAS COMPANY L.P.

9. API NUMBER: 43-047-37723

3. ADDRESS OF OPERATOR: 1368 S. 1200 E. CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER: (435) 781-7024

10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 1444'FNL, 2651'FEL

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 13 10S 21E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|---|---|---|
| ☑ NOTICE OF INTENT (Submit in Duplicate) | ☐ ACIDIZE | ☐ DEEPEN | ☐ REPERFORATE CURRENT FORMATION |
| Approximate date work will start: | ☐ ALTER CASING | ☐ FRACTURE TREAT | ☐ SIDETRACK TO REPAIR WELL |
| | ☐ CASING REPAIR | ☐ NEW CONSTRUCTION | ☐ TEMPORARILY ABANDON |
| | ☐ CHANGE TO PREVIOUS PLANS | ☐ OPERATOR CHANGE | ☐ TUBING REPAIR |
| | ☐ CHANGE TUBING | ☐ PLUG AND ABANDON | ☐ VENT OR FLARE |
| ☐ SUBSEQUENT REPORT (Submit Original Form Only) | ☐ CHANGE WELL NAME | ☐ PLUG BACK | ☐ WATER DISPOSAL |
| Date of work completion: | ☐ CHANGE WELL STATUS | ☐ PRODUCTION (START/RESUME) | ☐ WATER SHUT-OFF |
| | ☐ COMMINGLE PRODUCING FORMATIONS | ☐ RECLAMATION OF WELL SITE | ☑ OTHER: PIPELINE CHANGE |
| | ☐ CONVERT WELL TYPE | ☐ RECOMPLETE - DIFFERENT FORMATION | |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE OPERATOR REQUESTS AUTHORIZATION TO CHANGE THE EXISTING PIPELINE PROPOSED IN THE ORIGINAL APD. AN ON-SITE WAS CONDUCTED ON 02/23/2006 WITH THE UTDOGM REPRESENTATIVE. WHILE CONDUCTING THE ON-SITE INSPECTION IT WAS DECIDED TO CHANGE THE PIPELINE TO A TOTAL OF APPROXIMATELY 50' +/- OF PIPELINE IS PROPOSED.

PLEASE REFER TO THE ATTACHED TOPO MAP D.

NAME (PLEASE PRINT) SHEILA UPCHEGO TITLE REGULATORY ANALYST

SIGNATURE [signature] DATE 3/13/2006

(This space for State use only)

Accepted by the Utah Division of Oil, Gas and Mining

FOR RECORD ONLY

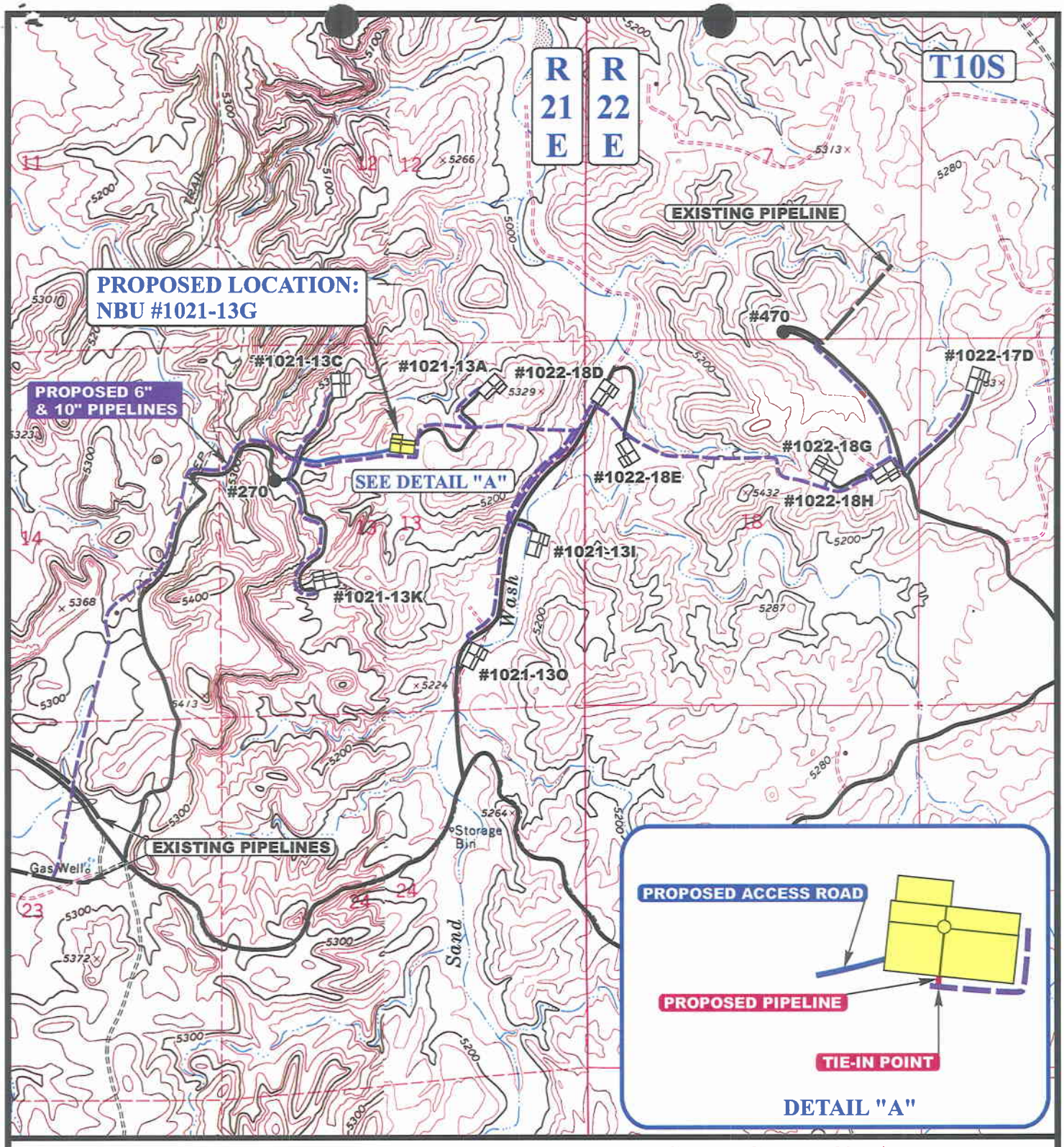
RECEIVED

MAR 2 3 2006

DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

*Approval should be obtained from appropriate Land Management Agency/owner




APPROXIMATE TOTAL PIPELINE DISTANCE = 50' +/-

**LEGEND:**

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE
- PROPOSED PIPELINE (SERVICING OTHER WELLS)

N

**Kerr-McGee Oil & Gas Onshore LP**

NBU #1021-13G
SECTION 13, T10S, R21E, S.L.B.&M.
1444' FNL 2651' FEL


Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813


| TOPOGRAPHIC MAP | 01 MONTH | 14 DAY | 06 YEAR | D TOPO |
|---|---|---|---|---|
| SCALE: 1" = 2000' | DRAWN BY: C.P. | REVISED: 03-07-06 | | |

Division of Oil, Gas and Mining

# OPERATOR CHANGE WORKSHEET

| ROUTING |
|---|
| 1. DJJ |
| 2. CDW |

**X Change of Operator (Well Sold)** Operator Name Change/Merger

The operator of the well(s) listed below has changed, effective: **1/6/2006**

| **FROM:** (Old Operator): | **TO:** ( New Operator): |
|---|---|
| N2115-Westport Oil & Gas Co., LP | N2995-Kerr-McGee Oil & Gas Onshore, LP |
| 1368 South 1200 East | 1368 South 1200 East |
| Vernal, UT 84078 | Vernal, UT 84078 |
| Phone: 1-(435) 781-7024 | Phone: 1-(435) 781-7024 |

**CA No.** **Unit:** **NATURAL BUTTES UNIT**

| WELL NAME | SEC | TWN | RNG | API NO | ENTITY NO | LEASE TYPE | WELL TYPE | WELL STATUS |
|---|---|---|---|---|---|---|---|---|

## OPERATOR CHANGES DOCUMENTATION

**Enter date after each listed item is completed**

1. (R649-8-10) Sundry or legal documentation was received from the **FORMER** operator on: 5/10/2006
2. (R649-8-10) Sundry or legal documentation was received from the **NEW** operator on: 5/10/2006
3. The new company was checked on the **Department of Commerce, Division of Corporations Database on:** 3/7/2006
4a. Is the new operator registered in the State of Utah: YES Business Number: 1355743-0181
4b. If **NO**, the operator was contacted contacted on:
5a. (R649-9-2)Waste Management Plan has been received on: IN PLACE
5b. Inspections of LA PA state/fee well sites complete on: n/a 3 LA wells & all PA wells transferred
5c. Reports current for Production/Disposition & Sundries on: ok
6. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: BLM 3/27/2006 BIA not yet
7. **Federal and Indian Units:** The BLM or BIA has approved the successor of unit operator for wells listed on: 3/27/2006
8. **Federal and Indian Communization Agreements ("CA"):** The BLM or BIA has approved the operator for all wells listed within a CA on: n/a
9. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, **Transfer of Authority to Inject,** for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on:

## DATA ENTRY:

1. Changes entered in the **Oil and Gas Database on:** 5/15/2006
2. Changes have been entered on the **Monthly Operator Change Spread Sheet on:** 5/15/2006
3. Bond information entered in RBDMS on: 5/15/2006
4. Fee/State wells attached to bond in RBDMS on: 5/16/2006
5. Injection Projects to new operator in RBDMS on:
6. Receipt of Acceptance of Drilling Procedures for APD/New on: n/a Name Change Only

## BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: CO1203
2. Indian well(s) covered by Bond Number: RLB0005239
3. (R649-3-1) The **NEW** operator of any fee well(s) listed covered by Bond Number RLB0005236

a. The **FORMER** operator has requested a release of liability from their bond on: n/a rider added KMG
The Division sent response by letter on:

## LEASE INTEREST OWNER NOTIFICATION:

4. (R649-2-10) The **FORMER** operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 5/16/2006

**COMMENTS:**

Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**

***Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.***

***SUBMIT IN TRIPLICATE – Other instructions on reverse side***

5. Lease Serial No.
MULTIPLE LEASES

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
**MUTIPLE WELLS**

2. Name of Operator
KERR-McGEE OIL & GAS ONSHORE LP

9. API Well No.

3a. Address
1368 SOUTH 1200 EAST VERNAL, UT 84078

3b. Phone No. *(include area code)*
(435) 781-7024

10. Field and Pool, or Exploratory Area

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
SEE ATTACHED

11. County or Parish, State
UINTAH COUNTY, UTAH

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | | |
|---|---|---|---|---|
| ☐ Notice of Intent | ☐ Acidize | ☐ Deepen | ☐ Production (Start/Resume) | ☐ Water Shut-Off |
| ☒ Subsequent Report | ☐ Alter Casing | ☐ Fracture Treat | ☐ Reclamation | ☐ Well Integrity |
| ☐ Final Abandonment Notice | ☐ Casing Repair | ☐ New Construction | ☐ Recomplete | ☒ Other CHANGE OF OPERATOR |
| | ☐ Change Plans | ☐ Plug and Abandon | ☐ Temporarily Abandon | |
| | ☐ Convert to Injection | ☐ Plug Back | ☐ Water Disposal | |

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

PLEASE BE ADVISED THAT KERR-McGEE OIL & GAS ONSHORE LP, IS CONSIDERED TO BE THE OPERATOR OF THE ATTACHED WELL LOCATIONS. EFFECTIVE JANUARY 6, 2006.
KERR-McGEE OIL & GAS ONSHORE LP, IS RESPONSIBLE UNDER TERMS AND CONDITIONS OF THE LEASE(S) FOR THE OPERATIONS CONDUCTED UPON LEASE LANDS. BOND COVERAGE IS PROVIDED BY STATE OF UTAH NATIONWIDE BOND NO. RLB0005237.

RECEIVED
MAY 10 2006
DIV. OF OIL, GAS & MINING

BLM BOND = CO1203
BIA BOND = RLB0005239

APPROVED 5/16/06
Earlene Russell
Division of Oil, Gas and Mining
Earlene Russell, Engineering Technician

14. I hereby certify that the foregoing is true and correct

| Name *(Printed/Typed)* | Title |
|---|---|
| RANDY BAYNE | DRILLING MANAGER |
| Signature | Date |
| Randy Bayne | May 9, 2006 |

**THIS SPACE FOR FEDERAL OR STATE USE**

| Approved by | Title | Date |
|---|---|---|
| Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. | Office | |

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on reverse)*

Form 3160-5
(August 1999)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0135
Expires Jnovember 30, 2000

**SUNDRY NOTICES AND REPORTS ON WELLS**

***Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.***

***SUBMIT IN TRIPLICATE – Other instructions on reverse side***

5. Lease Serial No.
MULTIPLE LEASES

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
**MUTIPLE WELLS**

2. Name of Operator
WESTPORT OIL & GAS COMPANY L.P.

9. API Well No.

3a. Address
1368 SOUTH 1200 EAST VERNAL, UT 84078

3b. Phone No. *(include area code)*
(435) 781-7024

10. Field and Pool, or Exploratory Area

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
SEE ATTACHED

11. County or Parish, State
UINTAH COUNTY, UTAH

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | | |
|---|---|---|---|---|
| ☐ Notice of Intent | ☐ Acidize | ☐ Deepen | ☐ Production (Start/Resume) | ☐ Water Shut-Off |
| ☒ Subsequent Report | ☐ Alter Casing | ☐ Fracture Treat | ☐ Reclamation | ☐ Well Integrity |
| ☐ Final Abandonment Notice | ☐ Casing Repair | ☐ New Construction | ☐ Recomplete | ☒ Other CHANGE OF OPERATOR |
| | ☐ Change Plans | ☐ Plug and Abandon | ☐ Temporarily Abandon | |
| | ☐ Convert to Injection | ☐ Plug Back | ☐ Water Disposal | |

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

EFFECTIVE JANUARY 6, 2006, WESTPORT OIL & GAS COMPANY L.P., HAS RELINQUISHED THE OPERATORSHIP OF THE ATTACHED WELL LOCATIONS TO KERR-McGEE OIL & GAS ONSHORE LP.

**APPROVED** 5/16/06
Earlene Russell
**Division of Oil, Gas and Mining**
**Earlene Russell, Engineering Technician**

RECEIVED
MAY 10 2006
DIV. OF OIL, GAS & MINING

14. I hereby certify that the foregoing is true and correct

| Name *(Printed/Typed)* | Title |
|---|---|
| BRAD LANEY | ENGINEERING SPECIALIST |
| Signature | Date |
| | May 9, 2006 |

**THIS SPACE FOR FEDERAL OR STATE USE**

| Approved by | Title | Date |
|---|---|---|
| Brad Laney | | 5-9-06 |
| Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. | Office | |

Title 18 U.S.C. Section 1001, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on reverse)*

FORM 9

**STATE OF UTAH**
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5 LEASE DESIGNATION AND SERIAL NUMBER: ML-23608

# SUNDRY NOTICES AND REPORTS ON WELLS

6 IF INDIAN, ALLOTTEE OR TRIBE NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals Use APPLICATION FOR PERMIT TO DRILL form for such proposals

7 UNIT or CA AGREEMENT NAME: NATURAL BUTTES UNIT

1 TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER

8 WELL NAME and NUMBER: NBU 1021-13G

2 NAME OF OPERATOR: KERR MCGEE OIL AND GAS ONSHORE LP

9 API NUMBER: 4304737723

3 ADDRESS OF OPERATOR: 1368 S 1200 E CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER: (435) 781-7003

10 FIELD AND POOL, OR WILDCAT: NATURAL BUTTES

4 LOCATION OF WELL

FOOTAGES AT SURFACE: 1444' FNL 2651' FEL

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 13 10S 21E

STATE: UTAH

11 CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|---|---|---|
| ☑ NOTICE OF INTENT (Submit in Duplicate) | ☐ ACIDIZE | ☐ DEEPEN | ☐ REPERFORATE CURRENT FORMATION |
| Approximate date work will start | ☐ ALTER CASING | ☐ FRACTURE TREAT | ☐ SIDETRACK TO REPAIR WELL |
| | ☐ CASING REPAIR | ☐ NEW CONSTRUCTION | ☐ TEMPORARILY ABANDON |
| | ☐ CHANGE TO PREVIOUS PLANS | ☐ OPERATOR CHANGE | ☐ TUBING REPAIR |
| | ☐ CHANGE TUBING | ☐ PLUG AND ABANDON | ☐ VENT OR FLARE |
| ☐ SUBSEQUENT REPORT (Submit Original Form Only) | ☐ CHANGE WELL NAME | ☐ PLUG BACK | ☐ WATER DISPOSAL |
| Date of work completion | ☐ CHANGE WELL STATUS | ☐ PRODUCTION (START/RESUME) | ☐ WATER SHUT-OFF |
| | ☐ COMMINGLE PRODUCING FORMATIONS | ☐ RECLAMATION OF WELL SITE | ☑ OTHER APD EXTENSION |
| | ☐ CONVERT WELL TYPE | ☐ RECOMPLETE - DIFFERENT FORMATION | |

12 DESCRIBE PROPOSED OR COMPLETED OPERATIONS Clearly show all pertinent details including dates, depths, volumes, etc

THE OPERATOR REQUESTS AUTHORIZATION FOR A ONE YEAR EXTENSION FOR THE SUBJECT WELL LOCATION SO THAT THE DRILLING OPERATIONS MAY BE COMPLETED. THE ORIGINAL APD WAS APPROVED BY THE DIVISION OF OIL, GAS AND MINING ON MARCH 15, 2006

Approved by the
Utah Division of
Oil, Gas and Mining

Date: 02-21-07

By:

COPY SENT TO OPERATOR
Date: 2-22-07
Initials: RM

NAME (PLEASE PRINT) RAMEY HOOPES TITLE REGULATORY CLERK

SIGNATURE Ramey Hoopes DATE 2/8/2007

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FEB 20 2007
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

**Application for Permit to Drill**
**Request for Permit Extension**
**Validation**
(this form should accompany the Sundry Notice requesting permit extension)

**API:** 4304737723
**Well Name:** NBU 1021-13G
**Location:** SWNE, SEC 13-T10S-R21E
**Company Permit Issued to:** KERR MCGEE OIL AND GAS ONSHORE LP
**Date Original Permit Issued:** 3/15/2006

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision.

Following is a checklist of some items related to the application, which should be verified.

If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes☐No☑

Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes☐No☑

Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes☐No☑

Have there been any changes to the access route including ownership, or right-of-way, which could affect the proposed location? Yes☐No☑

Has the approved source of water for drilling changed? Yes☐No☑

Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes☐No☑

Is bonding still in place, which covers this proposed well? Yes☑No☐

Ramey Hooper
Signature

2/8/2007
Date

Title: Regulatory Clerk

Representing: Kerr McGee Oil & Gas Onshore LP

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FEB 2 0 2007
DIV. OF OIL, GAS & MINING

**STATE OF UTAH**
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

# ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP
Operator Account Number: N 2995
Address: 1368 SOUTH 1200 EAST
city VERNAL
state UT zip 84078
Phone Number: (435) 781-7024

**Well 1**

| API Number | Well Name | | QQ | Sec | Twp | Rng | County |
|---|---|---|---|---|---|---|---|
| 4304737723 | NBU 1021-13G | | SWNE | 13 | 10S | 21E | UINTAH |
| **Action Code** | **Current Entity Number** | **New Entity Number** | **Spud Date** | | | **Entity Assignment Effective Date** | |
| B | 99999 | 2900 | 11/27/2007 | | | 11/29/07 | |

**Comments:** MIRU PETE MARTIN BUCKET RIG. WSMVD
SPUD WELL LOCATION ON 11/27/2007 AT 1100 HRS.

**Well 2**

| API Number | Well Name | | QQ | Sec | Twp | Rng | County |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| **Action Code** | **Current Entity Number** | **New Entity Number** | **Spud Date** | | | **Entity Assignment Effective Date** | |
| | | | | | | | |

**Comments:**

**Well 3**

| API Number | Well Name | | QQ | Sec | Twp | Rng | County |
|---|---|---|---|---|---|---|---|
| | | | | | | | |
| **Action Code** | **Current Entity Number** | **New Entity Number** | **Spud Date** | | | **Entity Assignment Effective Date** | |
| | | | | | | | |

**Comments:**

**ACTION CODES:**

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

SHEILA UPCHEGO
Name (Please Print)
Signature
SENIOR LAND SPECIALIST
Title
11/28/2007
Date

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NOV 28 2007
DIV. OF OIL, GAS & MINING

(5/2000)

FORM 9

**STATE OF UTAH**
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-2608

## SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME: UNIT #891008900A

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER

8. WELL NAME and NUMBER: NBU 1021-13G

2. NAME OF OPERATOR: KERR McGEE OIL & GAS ONSHORE LP

9. API NUMBER: 4304737723

3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER: (435) 781-7024

10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 1444'FNL, 2651'FEL

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 13 10S 21E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|---|---|---|
| ☐ NOTICE OF INTENT (Submit in Duplicate) | ☐ ACIDIZE | ☐ DEEPEN | ☐ REPERFORATE CURRENT FORMATION |
| Approximate date work will start: | ☐ ALTER CASING | ☐ FRACTURE TREAT | ☐ SIDETRACK TO REPAIR WELL |
| | ☐ CASING REPAIR | ☐ NEW CONSTRUCTION | ☐ TEMPORARILY ABANDON |
| | ☐ CHANGE TO PREVIOUS PLANS | ☐ OPERATOR CHANGE | ☐ TUBING REPAIR |
| | ☐ CHANGE TUBING | ☐ PLUG AND ABANDON | ☐ VENT OR FLARE |
| ☑ SUBSEQUENT REPORT (Submit Original Form Only) | ☐ CHANGE WELL NAME | ☐ PLUG BACK | ☐ WATER DISPOSAL |
| Date of work completion: | ☐ CHANGE WELL STATUS | ☐ PRODUCTION (START/RESUME) | ☐ WATER SHUT-OFF |
| | ☐ COMMINGLE PRODUCING FORMATIONS | ☐ RECLAMATION OF WELL SITE | ☑ OTHER: WELL SPUD |
| | ☐ CONVERT WELL TYPE | ☐ RECOMPLETE - DIFFERENT FORMATION | |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX.

SPUD WELL LOCATION ON 11/27/2007 AT 1100 HRS.

RECEIVED
DEC 03 2007
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) SHEILA UPCHEGO TITLE SENIOR LAND ADMIN SPECIALIST

SIGNATURE DATE 11/28/2007

(This space for State use only)

(5/2000) (See Instructions on Reverse Side)

**STATE OF UTAH**
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 9

# SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-2608

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME: UNIT #891008900A

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER

8. WELL NAME and NUMBER: NBU 1021-13G

2. NAME OF OPERATOR: KERR McGEE OIL & GAS ONSHORE LP

9. API NUMBER: 4304737723

3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER: (435) 781-7024

10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 1444'FNL, 2651'FEL

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 13 10S 21E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|---|---|---|
| ☐ NOTICE OF INTENT (Submit in Duplicate) | ☐ ACIDIZE | ☐ DEEPEN | ☐ REPERFORATE CURRENT FORMATION |
| Approximate date work will start: | ☐ ALTER CASING | ☐ FRACTURE TREAT | ☐ SIDETRACK TO REPAIR WELL |
| | ☐ CASING REPAIR | ☐ NEW CONSTRUCTION | ☐ TEMPORARILY ABANDON |
| | ☐ CHANGE TO PREVIOUS PLANS | ☐ OPERATOR CHANGE | ☐ TUBING REPAIR |
| | ☐ CHANGE TUBING | ☐ PLUG AND ABANDON | ☐ VENT OR FLARE |
| ☑ SUBSEQUENT REPORT (Submit Original Form Only) | ☐ CHANGE WELL NAME | ☐ PLUG BACK | ☐ WATER DISPOSAL |
| Date of work completion: | ☐ CHANGE WELL STATUS | ☐ PRODUCTION (START/RESUME) | ☐ WATER SHUT-OFF |
| | ☐ COMMINGLE PRODUCING FORMATIONS | ☐ RECLAMATION OF WELL SITE | ☑ OTHER: SET SURFACE CSG. |
| | ☐ CONVERT WELL TYPE | ☐ RECOMPLETE - DIFFERENT FORMATION | |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

MIRU BILL MARTIN AIR RIG ON 12/01/2007. DRILLED 12 1/4" SURFACE HOLE TO 2220'. RAN 9 5/8" 36# J-55 SURFACE CSG. LEAD CMT W/300 SX PREM CLASS G @15.8 PPG 1.15 YIELD. TAILED CMT W/150 SX PREM CLASS G @15.8 PPG 1.15 YIELD. NO RETURNS TO PIT. TOP OUT W/225 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN BACKSIDE. WOC. 2ND TOP OUT W/125 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN BACKSIDE GOOD CMT TO SURFACE HOLE STAYED FULL.

WORT.

RECEIVED
DEC 14 2007
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) SHEILA UPCHEGO TITLE SENIOR LAND ADMIN SPECIALIST

SIGNATURE DATE 12/11/2007

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(5/2000) (See Instructions on Reverse Side)

FORM 9

**STATE OF UTAH**
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-2608

# SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME: UNIT #891008900A

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER

8. WELL NAME and NUMBER: NBU 1021-13G

2. NAME OF OPERATOR: KERR McGEE OIL & GAS ONSHORE LP

9. API NUMBER: 4304737723

3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER: (435) 781-7024

10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 1444'FNL, 2651'FEL

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 13 10S 21E

STATE: UTAH

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| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|---|---|---|
| ☐ NOTICE OF INTENT (Submit in Duplicate) | ☐ ACIDIZE | ☐ DEEPEN | ☐ REPERFORATE CURRENT FORMATION |
| Approximate date work will start: _____ | ☐ ALTER CASING | ☐ FRACTURE TREAT | ☐ SIDETRACK TO REPAIR WELL |
| | ☐ CASING REPAIR | ☐ NEW CONSTRUCTION | ☐ TEMPORARILY ABANDON |
| | ☐ CHANGE TO PREVIOUS PLANS | ☐ OPERATOR CHANGE | ☐ TUBING REPAIR |
| | ☐ CHANGE TUBING | ☐ PLUG AND ABANDON | ☐ VENT OR FLARE |
| ☑ SUBSEQUENT REPORT (Submit Original Form Only) | ☐ CHANGE WELL NAME | ☐ PLUG BACK | ☐ WATER DISPOSAL |
| Date of work completion: _____ | ☐ CHANGE WELL STATUS | ☐ PRODUCTION (START/RESUME) | ☐ WATER SHUT-OFF |
| | ☐ COMMINGLE PRODUCING FORMATIONS | ☐ RECLAMATION OF WELL SITE | ☑ OTHER: FINAL DRILLING OPERATIONS |
| | ☐ CONVERT WELL TYPE | ☐ RECOMPLETE - DIFFERENT FORMATION | |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

FINISHED DRILLING FROM 2220' TO 9131' ON 12/20/2007. RAN 4 1/2" 11.6# I-80 PRODUCTION CSG. LEAD CMT W/310 SX PREM LITE II @11.0 PPG 3.38 YIELD. TAILED CMT W/1225 SX 50/50 POZ @14.3 PPG 1.31 YIELD. GOOD RETURNS THROUGHOUT JOB N/ND BOPE & SET SLIPS ON 4 1/2" PROD CSG ROUGH CUT CSG. L/OUT SAME CLEAN MUD TANKS.

RELEASED ENSIGN RIG 12 ON 12/23/2007 AT 1800 HRS.

NAME (PLEASE PRINT) SHEILA UPCHEGO TITLE SENIOR LAND ADMIN SPECIALIST

SIGNATURE Sheila Upchego DATE 12/26/2007

**(This space for State use only)**

(5/2000) (See Instructions on Reverse Side)

FORM 9

**STATE OF UTAH**
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-2608

## SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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7. UNIT or CA AGREEMENT NAME: UNIT #891008900A

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER

8. WELL NAME and NUMBER: NBU 1021-13G

2. NAME OF OPERATOR: KERR McGEE OIL & GAS ONSHORE LP

9. API NUMBER: 4304737723

3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER: (435) 781-7024

10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 1444'FNL, 2651'FEL

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 13 10S 21E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|---|---|---|
| ☐ NOTICE OF INTENT (Submit in Duplicate) | ☐ ACIDIZE | ☐ DEEPEN | ☐ REPERFORATE CURRENT FORMATION |
| Approximate date work will start: _____ | ☐ ALTER CASING | ☐ FRACTURE TREAT | ☐ SIDETRACK TO REPAIR WELL |
| | ☐ CASING REPAIR | ☐ NEW CONSTRUCTION | ☐ TEMPORARILY ABANDON |
| | ☐ CHANGE TO PREVIOUS PLANS | ☐ OPERATOR CHANGE | ☐ TUBING REPAIR |
| | ☐ CHANGE TUBING | ☐ PLUG AND ABANDON | ☐ VENT OR FLARE |
| ☑ SUBSEQUENT REPORT (Submit Original Form Only) | ☐ CHANGE WELL NAME | ☐ PLUG BACK | ☐ WATER DISPOSAL |
| Date of work completion: | ☐ CHANGE WELL STATUS | ☐ PRODUCTION (START/RESUME) | ☐ WATER SHUT-OFF |
| _____ | ☐ COMMINGLE PRODUCING FORMATIONS | ☐ RECLAMATION OF WELL SITE | ☑ OTHER: PRODUCTION START-UP |
| | ☐ CONVERT WELL TYPE | ☐ RECOMPLETE - DIFFERENT FORMATION | |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE SUBJECT WELL LOCATION WAS PLACED ON PRODUCTION ON 02/02/2008 AT 10:00 AM.

PLEASE REFER TO THE ATTACHED CHRONOLOGICAL WELL HISTORY.

RECEIVED
FEB 25 2008
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) SHEILA UPCHEGO TITLE SENIOR LAND ADMIN SPECIALIST

SIGNATURE _____ DATE 2/4/2008

(This space for State use only)

(5/2000) (See Instructions on Reverse Side)

Anadarko Petroleum Corporation
1368 South 1200 East
Vernal, UT 84078

# CHRONOLOGICAL WELL HISTORY

**NBU 1021-13G**
LOCATION SWNE, SEC.13, T10S, R21E
UINTAH COUNTY, UT

| DATE | ACTIVITY | | STATUS |
|---|---|---|---|
| **11/01/07** | LOCATION STARTED | ENSIGN 12 | |
| **11/26/07** | LOCATION COMPLETED | ENSIGN 12 | P/L IN, WOBR |
| **11/27/07** | SET CONDUCTOR | ENSIGN 12 | WOAR |
| **12/01/07** | SET AIR RIG | ENSIGN 12 | BUILDING |
| **12/10/07** | 9-5/8" @ 2164' | ENSIGN 12 | WORT |

**12/12/07**

TD: 2220' Csg. 9 5/8"@ 2164' MW: 8.4 SD: 12/xx/07 DSS: 0
RURT.

**12/13/07**

TD: 2220' Csg. 9 5/8"@ 2164' MW: 8.4 SD: 12/xx/07 DSS: 0
RURT. NU and test BOPE. PU BHA @ report time.

**12/14/07**

TD: 3145' Csg. 9 5/8"@ 2164' MW: 8.8 SD: 12/13/07 DSS: 1
PU BHA and drill FE. Rotary spud @ 1530 hrs 12/13/07. Drill from 2220'-3145'. DA @ report time.

**12/17/07**

TD: 6614' Csg. 9 5/8"@ 2164' MW: 9.8SD: 12/13/07 DSS: 4
Drill from 3145'-6614'. DA @ report time.

**12/18/07**

TD: 7005' Csg. 9 5/8"@ 2164' MW: 10.0 SD: 12/13/07 DSS: 5
Drill from 6614'-6942'. TFNB. Drill to 7005'. DA @ report time.

**12/19/07**

TD: 7964' Csg. 9 5/8"@ 2164' MW: 10.3 SD: 12/13/07 DSS: 6
Drill from 7005'-7964'. DA @ report time.

**12/20/07**

TD: 8692' Csg. 9 5/8"@ 2164' MW: 10.7 SD: 12/13/07 DSS: 7
Drill from 7964'-8692'. TFNB @ report time.

**12/21/07**

TD: 9131' Csg. 9 5/8"@ 2164' MW: 11.1 SD: 12/13/07 DSS: 8
TFNB. Drill from 8692'-9131'. CCH and prep for short trip @ report time.

**12/24/07**

TD: 9131' Csg. 9 5/8"@ 2164' MW: 11.5 SD: 12/13/07 DSS: 12
Short trip and raise MW to 11.5 w/ 5% LCM. TOOH and run logs to TD. TIH, CCH, and LDDS. Run and cmt 4.5" prod csg. Land hanger, ND, clean pits, and release rig @ 1800 hrs on 12/23. RDRT @ report time. Move scheduled for 12/26.

**12/26/07**

TD: 9131' Csg. 9 5/8"@ 2164' MW: 11.5 SD: 12/13/07 DSS: 12
Move rig to NBU 1021-13A @ report time.

**01/28/08** **RIH W/ TBG**

Days On Completion: 1
Remarks: HSM. ROAD RIG FROM NBU 922-33H4 TO THE NBU 1021-13G. SPOT IN RIG EQUIPMENT & RU RIG. PU 3 7/8" MILL & SUB. DRIFT & TALLY 4 JTS OF 2 3/8" J-55 4.7# TUBING. EOT @ 126' WINTERIZE WELL HEAD. SWI SDFN. DUE TO HIGH WIND NOT ABLE TO PU TUBING

**01/29/08** **PREP TO FRAC**

Days On Completion: 2
Remarks: DAY 2 ) HSM. PU DRITF & TALLY 230 JTS OF 2 3/8" J-55 4.7# TUBING W/ 3 7/8" MILL & SUB. EOT @ 7,240'. POOH W/ 115 STANDS. ND BOP'S NU FRAC VALVES. MIRU B&C QUICK TEST & CUTTERS TO PRESSURE TEST & PERFORATE. PRESSURE TEST CASING & BOTH FRAC VALVES TO 7,500 PSI. GOOD TEST. RDMO B&C QUICK TEST. RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. PERF 8,894' - 8,904' 4 SPF, 40 HOLES. WINTERIZE WELL HEAD. SWI SDFN

**01/30/08** **FRAC**

Days On Completion: 3
Remarks: DAY 3 ) HSM. MIRU BJ & CUTTERS TO FRAC & PERFORATE. PRIME UP PUMPS & LINES. PRESSURE TEST TO 8,000 PSI.

STG 1) WHP 1,329 PSI, BRK 5,354 PSI @ 6.3 BPM, ISIP 2,732 PSI, FG .74 PUMP 100 BBLS @ 50.0 BPM @ 5,150 PSI = 40 OF 40 HOLES OPEN. MP 6,840 PSI, MR 52.0 BPM, AP 5,525 PSI, AR 51.0 BPM, ISIP 3,029 PSI, FG .77 NPI 297 PSI, PUMP 1,142 BBLS SLICK WATER & 31,432 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN COATED SAND, TOTAL PROP PUMPED 35,432 LBS

STG 2) RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 & 180 DEG PHASING. SET 8K BAKER CBP @ 8,629', PERF 8,594' – 99' 4 SPF, 8,528' – 30' 4 SPF, 8,492' – 94' 4 SPF, 8,432' – 34' 2 SPF, 40 HOLES WHP 143 PSI, BRK 4,836 PSI @ 6.3 BPM, ISIP 3,001 PSI, FG .79 PUMP 100 BBLS @ 50.7 BPM @ 5,520 PSI = 36 OF 40 HOLES OPEN. MP 5,729 PSI, MR 52.5 BPM, AP 4,479 PSI, AR 51.0 BPM, ISIP 2,536 PSI, FG .73 NPI -465 PSI, PUMP 1,876 BBLS SLICK WATER & 62,571 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN COATED SAND, TOTAL PROP PUMPED 67,571 LBS

STG 3) RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. SET 8K BAKER CBP @ 8,306', PERF 8,263' – 69' 4 SPF, 8,144' – 48' 4 SPF, 40 HOLES WHP 65 PSI, BRK 3,842 PSI @ 6.3 BPM, ISIP 2,076 PSI, FG .69 PUMP 100 BBLS @ 51.7 BPM @ 4,520 PSI = 40 OF 40 HOLES OPEN. MP 4,756 PSI, MR 53.0 BPM, AP 3,836 PSI, AR 52.0 BPM, ISIP 2,069 PSI, FG .69 NPI -7 PSI, PUMP 1,140 BBLS SLICK WATER & 33,928 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN COATED SAND, TOTAL PROP PUMPED 38,928 LBS

STG 4) RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 120 DEG PHASING. SET 8K BAKER CBP @ 7,894', PERF 7,852' – 64' 3 SPF, 36 HOLES WHP 277 PSI, BRK 4,350 PSI @ 6.3 BPM, ISIP 1,772 PSI, FG .66 PUMP 100 BBLS @ 52.0 BPM @ 4,240 PSI = 36 OF 36 HOLES OPEN. MP 4,756 PSI, MR 52.5 BPM, AP 3,975 PSI, AR 52.0 BPM, ISIP 2,284 PSI, FG .73

NPI 512 PSI, PUMP 1,189 BBLS SLICK WATER & 41,184 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN COATED SAND, TOTAL PROP PUMPED 46,184 LBS

WINTERIZE WELL HEAD. SWI SDFN

**01/31/08** **FRAC**

Days On Completion: 4
Remarks: DAY 4 ) HSM. CUTTERS TO FRAC & PERFORATE. PRIME UP PUMPS & LINES. PRESSURE TEST TO 8,000 PSI.

STG 5) RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. SET 8K BAKER CBP @ 7,755', PERF 7,720' – 25' 4 SPF, 7,642' – 46' 4 SPF, 7,580' - 82' 4 SPF, 7,522' - 23' 4 SPF, 40 HOLES WHP 220 PSI, BRK 4,692 PSI @ 6.3 BPM, ISIP 1635 PSI, FG .65 PUMP 100 BBLS @ 52.5 BPM @ 4,100 PSI = 40 OF 40 HOLES OPEN. MP 4,597 PSI, MR 53.0 BPM, AP 3,694 PSI, AR 52.5 BPM, ISIP 2,397 PSI, FG .75 NPI 762 PSI, PUMP 4,814 BBLS SLICK WATER & 174,392 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN COATED SAND, TOTAL PROP PUMPED 179,392 LBS

STG 6) RIH W/ 3 3/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. SET 8K BAKER CBP @ 7,350', PERF 7,310' – 20' 4 SPF, 40 HOLES WHP 175 PSI, BRK 5,792 PSI @ 6.3 BPM, ISIP 2,028 PSI, FG .72 PUMP 100 BBLS @ 52.0 BPM @ 4,702 PSI = 36 OF 40 HOLES OPEN MP 5,236 PSI, MR 52.0 BPM, AP 4,694 PSI, AR 51.5 BPM, ISIP 2,698 PSI, FG .81 NPI 670 PSI, PUMP 560 BBLS SLICK WATER & 13,253 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN COATED SAND, TOTAL PROP PUMPED 18,253 LBS

KILL PLG ) RIH SET 8K BAKER CBP @ 7,350' RDMO BJ & CUTTERS. ND FRAC VALVES NU BOP'S. PU 3 7/8" BIT FAST EDDIE POBS & SN. RIH W/ 230 JTS OF 2 3/8" J-55 4.7# TBG. EOT @ 7,240' POOH W/ 2 STAND TO DROP WATER LEVEL @ SURFACE. EOT @ 7,114'. WINTERIZE WELL HEAD. SWI SDFN.

**02/01/08** **DRILL CBP'S**

Days On Completion: 5
Remarks: DAY 5 ) HSM. PU 4 JTS. RU POWER SWIVEL & RU RIG PUMP. BRK CIRCULATION W/ 2% KCL WATER. RIH. C/O 5' OF SAND TAG PLG 1 @ 7,260' DRL PLG IN 10 MIN 100 PSI INCREASE RIH C/O 30' OF SAND TAG PLG 2 @ 7,352' DRL PLG IN 10 MIN 800 PSI INCREASE RIH C/O 30' OF SAND TAG PLG 3 @ 7,755' DRL PLG IN 10 MIN 200 PSI INCREASE RIH C/O 30' OF SAND TAG PLG 4 @ 7,894' DRL PLG IN 10 MIN 400 PSI INCREASE RIH C/O 30' OF SAND TAG PLG 5 @ 8,306' DRL PLG IN 10 MIN 300 PSI INCREASE RIH C/O 30' OF SAND TAG PLG 6 @ 8,620' DRL PLG IN 10 MIN 200 PSI INCREASE RIH C/O TO 9,000' CIRCULATE WELL CLEAN. RD POWER SWIVEL. POOH LD 49 JTS OF 2 3/8" J-55 4.7# TBG. LAND TUBING W/ 237 JTS. EOT & 7,667.10'. ND BOP'S NU WELL HEAD. DROP BALL TO SHEAR OFF BIT. PUMP OFF BIT @ 1,850 PSI. SWI FOR 30 MINUTES SO BIT CAN FALL TO BOTTOM. TURN WELL OVER TO FLOW TESTERS

| | | | |
|---|---|---|---|
| 298 JTS OUTBOUND | TLTR | 10,721 BBLS KB | 15.00' |
| 237 JTS LANDED | RIG REC | 3,000 BBLS HANGER | .83' |
| 61 JTS RETURNED | LLTR | 7,721 BBLS TUBING (237 JTS) | 7,449.07' |
| XN NIPPLE | 2.20' | | |
| LANDED | 7,671.10' | | |

**02/02/08** **FLOWBACK REPORT:** CP 1600#, TP 1200#, CK 20/64", 60 BWPH, LOAD REC'D 4060 BBLS, REMAINING LTR 6661 BBLS

**02/03/08** **FLOWBACK REPORT:** CP 2350#, TP 1300#, CK 20/64", 45 BWPH, LOAD REC'D 1170 BBLS, REMAINING LTR 5491 BBLS
**WENT ON SALES:** @ 10:00 AM, 504 MCF, 1250 TBG, 2450 CSG, 20/64 CK, 40 BBWH

**ON SALES:** 0 MCF, 0 BC, 1080 BW, TP: 2350#, CP: 1300#, 20/64 CHK, 24HRS, LP: 0#.

**02/04/08** **FLOWBACK REPORT:** CP 2950#, TP 1500#, CK 20/64", 25 BWPH, LOAD REC'D 795 BBLS, REMAINING LTR 4696 BBLS
**ON SALES:** 365 MCF, 0 BC, 600 BW, TP: 1500#, CP: 2950#, 20/64 CHK, 24HRS, LP: 262#.

**STATE OF UTAH**
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☐ (highlight changes) FORM 8

# WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-23608

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ DRY ☐ OTHER

7. UNIT or CA AGREEMENT NAME: UNIT #891008900A

b. TYPE OF WORK: NEW WELL ☑ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☐ OTHER

8. WELL NAME and NUMBER: NBU 1021-13G

2. NAME OF OPERATOR: KERR McGEE OIL & GAS ONSHORE LP

9. API NUMBER: 4304737723

3. ADDRESS OF OPERATOR: 1368 S 1200 E CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER: (435) 781-7024

10 FIELD AND POOL, OR WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: 1444'FNL, 2651'FEL
AT TOP PRODUCING INTERVAL REPORTED BELOW:
AT TOTAL DEPTH:

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 13 10S 21E

12. COUNTY: UINTAH

13. STATE: UTAH

14. DATE SPUDDED: 11/27/2007

15. DATE T.D. REACHED: 12/20/2007

16. DATE COMPLETED: 2/2/2008 ABANDONED ☐ READY TO PRODUCE ☑

17. ELEVATIONS (DF, RKB, RT, GL): 5255'GL

18. TOTAL DEPTH: MD 9,131 TVD

19. PLUG BACK T.D.: MD 9,000 TVD

20. IF MULTIPLE COMPLETIONS, HOW MANY? *

21. DEPTH BRIDGE PLUG SET: MD TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) MUDLOG; CBL-CCL-GR; HOLE VOLUME CAL; AI/SHALLOW FOCUSED; TRIPLE COMBO; COMP PHOTO DEN/DN

23.
WAS WELL CORED? NO ☑ YES ☐ (Submit analysis)
WAS DST RUN? NO ☑ YES ☐ (Submit report)
DIRECTIONAL SURVEY? NO ☑ YES ☐ (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

| HOLE SIZE | SIZE/GRADE | WEIGHT (#/ft.) | TOP (MD) | BOTTOM (MD) | STAGE CEMENTER DEPTH | CEMENT TYPE & NO. OF SACKS | SLURRY VOLUME (BBL) | CEMENT TOP ** | AMOUNT PULLED |
|---|---|---|---|---|---|---|---|---|---|
| 20" | 14" STL | 36.7# | | 40 | | 28 | | | |
| 12 1/4" | 9 5/8 J-55 | 36# | | 2,220 | | 800 | | | |
| 7 7/8" | 4 1/2 I-80 | 11.6# | | 9,131 | | 1535 | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

25. TUBING RECORD

| SIZE | DEPTH SET (MD) | PACKER SET (MD) | SIZE | DEPTH SET (MD) | PACKER SET (MD) | SIZE | DEPTH SET (MD) | PACKER SET (MD) |
|---|---|---|---|---|---|---|---|---|
| 2 3/8" | 7,667 | | | | | | | |

26. PRODUCING INTERVALS WSMVD Per UNIT AA

| FORMATION NAME | TOP (MD) | BOTTOM (MD) | TOP (TVD) | BOTTOM (TVD) |
|---|---|---|---|---|
| (A) MESAVERDE | 7,310 | 8,904 | | |
| (B) | | | | |
| (C) | | | | |
| (D) | | | | |

27. PERFORATION RECORD

| INTERVAL (Top/Bot - MD) | SIZE | NO. HOLES | PERFORATION STATUS |
|---|---|---|---|
| 7,310 8,904 | 0.36 | 236 | Open ☑ Squeezed ☐ |
| | | | Open ☐ Squeezed ☐ |
| | | | Open ☐ Squeezed ☐ |
| | | | Open ☐ Squeezed ☐ |

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

| DEPTH INTERVAL | AMOUNT AND TYPE OF MATERIAL |
|---|---|
| 7310'-8904' | PMP 10,721 BBLS SLICK H2O & 385,760# 30/50 OTTOWA SD |
| | |
| | |

29. ENCLOSED ATTACHMENTS:
☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☐ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER:

RECEIVED
MAR 03 2008
DIV. OF OIL, GAS & MINING

30. WELL STATUS: PROD

(5/2000)

(CONTINUED ON BACK)

**31. INITIAL PRODUCTION**

**INTERVAL A (As shown in item #26)**

| DATE FIRST PRODUCED: | TEST DATE: | HOURS TESTED: | TEST PRODUCTION RATES: → | OIL – BBL: | GAS – MCF: | WATER – BBL: | PROD. METHOD: |
|---|---|---|---|---|---|---|---|
| 2/2/2008 | 2/7/2008 | 24 | | 0 | 1,907 | 784 | FLOWING |

| CHOKE SIZE: | TBG. PRESS. | CSG. PRESS. | API GRAVITY | BTU – GAS | GAS/OIL RATIO | 24 HR PRODUCTION RATES: → | OIL – BBL: | GAS – MCF: | WATER – BBL: | INTERVAL STATUS: |
|---|---|---|---|---|---|---|---|---|---|---|
| 15/64 | 1,168 | 1,873 | | | | | 0 | 1,907 | 784 | PROD |

**INTERVAL B (As shown in item #26)**

| DATE FIRST PRODUCED: | TEST DATE: | HOURS TESTED: | TEST PRODUCTION RATES: → | OIL – BBL: | GAS – MCF: | WATER – BBL: | PROD. METHOD: |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

| CHOKE SIZE: | TBG. PRESS. | CSG. PRESS. | API GRAVITY | BTU – GAS | GAS/OIL RATIO | 24 HR PRODUCTION RATES: → | OIL – BBL: | GAS – MCF: | WATER – BBL: | INTERVAL STATUS: |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |

**INTERVAL C (As shown in item #26)**

| DATE FIRST PRODUCED: | TEST DATE: | HOURS TESTED: | TEST PRODUCTION RATES: → | OIL – BBL: | GAS – MCF: | WATER – BBL: | PROD. METHOD: |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

| CHOKE SIZE: | TBG. PRESS. | CSG. PRESS. | API GRAVITY | BTU – GAS | GAS/OIL RATIO | 24 HR PRODUCTION RATES: → | OIL – BBL: | GAS – MCF: | WATER – BBL: | INTERVAL STATUS: |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |

**INTERVAL D (As shown in item #26)**

| DATE FIRST PRODUCED: | TEST DATE: | HOURS TESTED: | TEST PRODUCTION RATES: → | OIL – BBL: | GAS – MCF: | WATER – BBL: | PROD. METHOD: |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

| CHOKE SIZE: | TBG. PRESS. | CSG. PRESS. | API GRAVITY | BTU – GAS | GAS/OIL RATIO | 24 HR PRODUCTION RATES: → | OIL – BBL: | GAS – MCF: | WATER – BBL: | INTERVAL STATUS: |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |

**32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)**

SOLD

**33. SUMMARY OF POROUS ZONES (Include Aquifers):**

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

**34. FORMATION (Log) MARKERS:**

| Formation | Top (MD) | Bottom (MD) | Descriptions, Contents, etc. | Name | Top (Measured Depth) |
|---|---|---|---|---|---|
| WASATCH | 4,451 | 7,140 | | | |
| MESAVERDE | 7,140 | | | | |

**35. ADDITIONAL REMARKS (Include plugging procedure)**

**36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.**

NAME (PLEASE PRINT) SHEILA UPCHEGO TITLE SENIOR LAND ADMIN SPECIALIST

SIGNATURE DATE 2/25/2008

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

(5/2000)

FORM 9

**STATE OF UTAH**
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-2608

## SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

7. UNIT or CA AGREEMENT NAME: UNIT #891008900A

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER

8. WELL NAME and NUMBER: NBU 1021-13G

2. NAME OF OPERATOR: KERR McGEE OIL & GAS ONSHORE LP

9. API NUMBER: 4304737723

3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER: (435) 781-7024

10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL

FOOTAGES AT SURFACE: 1444'FNL, 2651'FEL

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 13 10S 21E

STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

| TYPE OF SUBMISSION | TYPE OF ACTION | | |
|---|---|---|---|
| ☑ NOTICE OF INTENT (Submit in Duplicate) | ☐ ACIDIZE | ☐ DEEPEN | ☐ REPERFORATE CURRENT FORMATION |
| Approximate date work will start: | ☐ ALTER CASING | ☐ FRACTURE TREAT | ☐ SIDETRACK TO REPAIR WELL |
| | ☐ CASING REPAIR | ☐ NEW CONSTRUCTION | ☐ TEMPORARILY ABANDON |
| | ☐ CHANGE TO PREVIOUS PLANS | ☐ OPERATOR CHANGE | ☐ TUBING REPAIR |
| | ☐ CHANGE TUBING | ☐ PLUG AND ABANDON | ☐ VENT OR FLARE |
| ☐ SUBSEQUENT REPORT (Submit Original Form Only) | ☐ CHANGE WELL NAME | ☐ PLUG BACK | ☐ WATER DISPOSAL |
| Date of work completion: | ☐ CHANGE WELL STATUS | ☐ PRODUCTION (START/RESUME) | ☐ WATER SHUT-OFF |
| | ☐ COMMINGLE PRODUCING FORMATIONS | ☐ RECLAMATION OF WELL SITE | ☐ OTHER: |
| | ☐ CONVERT WELL TYPE | ☑ RECOMPLETE - DIFFERENT FORMATION | |

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

THE OPERATOR REQUESTS AUTHORIZATION TO RECOMPLETE THE SUBJECT WELL LOCATION. THE OPERATOR PROPOSES TO COMPLETE THE WASATCH FORMATION, AND COMMINGLE THE NEWLY WASATCH FORMATION WITH THE EXISTING MESAVERDE FORMATION.

PLEASE REFER TO THE ATTACHED RECOMPLETION PROCEDURE.

Add New perfs 4529' to 7028'

RECEIVED
AUG 19 2008
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) SHEILA UPCHEGO TITLE REGULATORY ANALYST

SIGNATURE DATE 8/14/2008

(This space for State use only)

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING

DATE: 8/26/08

BY: *(Cause 173-14)

(See Instructions on Reverse Side)

COPY SENT TO OPERATOR
Date: 8.27.2008
Initials: KS

(5/2000)

**Name:** NBU 1021-13G
**Location:** SWNE-Section 13-T10S-R21E
**Uintah County, UT**
**Date:** 7/11/08

**ELEVATIONS:** 5255 GL 5270 KB

**TOTAL DEPTH:** 9131 **PBTD:** 9086
**SURFACE CASING:** 9 5/8", 36# J-55 ST&C @ 2230'
**PRODUCTION CASING:** 4 1/2", 11.6#, I-80 LT&C @ 9131'
Marker Joint **4447'-4462'**

**TUBULAR PROPERTIES:**

| | BURST (psi) | COLLAPSE (psi) | DRIFT DIA. (in.) | CAPACITIES (bbl/ft) | (gal/ft) |
|---|---|---|---|---|---|
| 2 3/8" 4.7# J-55 tbg | 7,700 | 8,100 | 1.901" | 0.00387 | 0.1624 |
| 4 ½" 11.6# I-80 (See above) | 7780 | 6350 | 3.875" | 0.0155 | 0.6528 |
| 2 3/8" by 4 ½" Annulus | | | | 0.0101 | 0.4227 |

**TOPS:**

1247' Green River
1981' Mahogany
4451' Wasatch
7179' Mesaverde
Estimated T.O.C. from CBL @3450'

**GENERAL:**

- A minimum of **24** tanks (cleaned lined 500 bbl) of recycled water will be required. Note: Use biocide in tanks and the water needs to be at least 45°F at pump time.
- All perforation depths are from Weatherfords Induction-Density-Neutron log dated 12/08/07
- **7** fracturing stages required for coverage.
- Procedure calls for 8 CBP's (**8000** psi).
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.
- Put scale inhibitor 3 gals/1000 gals (in pad and ½ the ramp) and 10 gals/1000 gals in all flushes except the final stage. Remember to pre-load the casing with scale inhibitor for the very first stage with 10 gpt.
- 30/50 mesh Ottawa sand, **Slickwater frac**.
- Maximum surface pressure **6200** psi.
- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). DO NOT OVERDISPLACE. Stage acid and scale inhibitor if necessary to cover the next perforated interval.
- Service companies need to provide surface/production annulus pop-offs to be set for 1500 psi for each frac.
- Pump **resin coated sand** last 5,000# of all frac stages

- Tubing Currently Landed @~7667'
- Originally completed on 1/28/08

**Existing Perforations:**

| Zones | Perforations | | SPF | Holes |
|---|---|---|---|---|
| | Top, ft | Bottom, ft | | |
| MESAVERDE | 8894 | 8904 | 4 | 40 |
| MESAVERDE | 8432 | 8434 | 2 | 4 |
| MESAVERDE | 8492 | 8494 | 4 | 8 |
| MESAVERDE | 8528 | 8530 | 4 | 8 |
| MESAVERDE | 8594 | 8599 | 4 | 20 |
| MESAVERDE | 8144 | 8148 | 4 | 16 |
| MESAVERDE | 8263 | 8269 | 4 | 24 |
| MESAVERDE | 7852 | 7864 | 3 | 36 |
| MESAVERDE | 7522 | 7523 | 4 | 4 |
| MESAVERDE | 7580 | 7582 | 4 | 8 |
| MESAVERDE | 7642 | 7644 | 4 | 8 |
| MESAVERDE | 7720 | 7725 | 4 | 20 |
| MESAVERDE | 7310 | 7320 | 4 | 40 |

**PROCEDURE:**

1. MIRU. Control well with recycled water and biocide as required. ND WH, NU BOP's and test.

2. TOOH with 2-3/8", 4.7#, J-55 tubing (currently landed at ~7667'). Visually inspect for scale and consider replacing if needed.

3. If tbg looks ok consider running a gauge ring to 7108' (50' below proposed CBP). Otherwise P/U a mill and C/O to 7108' (50' below proposed CBP).

4. Set 8000 psi CBP at ~ 7058'. Pressure test BOP and casing to 6000 psi. .

5. Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

| Zone | From | To | spf | # of shots |
|---|---|---|---|---|
| WASATCH | 6902 | 6906 | 4 | 16 |
| WASATCH | 6994 | 6997 | 4 | 12 |
| WASATCH | 7025 | 7028 | 4 | 12 |
| # of Perfs/stage | | | | 40 |

6. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Fracture as outlined in Stage 1 on attached listing. Under-displace to ~6852' and trickle 250gal 15%HCL w/ scale inhibitor in flush. **Note: Stage has tight spacing.**

7. Set 8000 psi CBP at ~6837'. Perf the following 3-3/8" gun, 23 gm, 0.36"hole:

| Zone | From | To | spf | # of shots |
|---|---|---|---|---|
| WASATCH | 6713 | 6716 | 3 | 9 |

| | | | | |
|---|---|---|---|---|
| WASATCH | 6769 | 6772 | 2 | 6 |
| WASATCH | 6800 | 6807 | 4 | 28 |
| # of Perfs/stage | | | | 43 |

8. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~6663' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

9. Set 8000 psi CBP at ~6608'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

| Zone | From | To | spf | # of shots |
|---|---|---|---|---|
| WASATCH | 6418 | 6422 | 4 | 16 |
| WASATCH | 6572 | 6578 | 4 | 24 |
| # of Perfs/stage | | | | 40 |

10. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 3 on attached listing. Under-displace to ~6368' trickle 250gal 15%HCL w/ scale inhibitor in flush. **Note: Stage pumped at a reduced rate**.

11. Set 8000 psi CBP at ~6153'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

| Zone | From | To | spf | # of shots |
|---|---|---|---|---|
| WASATCH | 6002 | 6006 | 4 | 16 |
| WASATCH | 6117 | 6123 | 4 | 24 |
| # of Perfs/stage | | | | 40 |

12. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 4 on attached listing. Under-displace to ~5952' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

13. Set 8000 psi CBP at ~5854'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

| Zone | From | To | spf | # of shots |
|---|---|---|---|---|
| WASATCH | 5710 | 5713 | 4 | 12 |
| WASATCH | 5790 | 5794 | 4 | 16 |
| WASATCH | 5821 | 5824 | 4 | 12 |
| # of Perfs/stage | | | | 40 |

14. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 5 on attached listing. Under-displace to ~5660' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

15. Set 8000 psi CBP at ~5291'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

| Zone | From | To | spf | # of shots |
|---|---|---|---|---|
| WASATCH | 5206 | 5208 | 3 | 6 |
| WASATCH | 5242 | 5244 | 4 | 8 |
| WASATCH | 5251 | 5261 | 3 | 30 |
| # of Perfs/stage | | | | 44 |

16. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 6 on attached listing. Under-displace to ~5156' and trickle 250gal 15%HCL w/ scale inhibitor in flush. **Note: Stage pumped at a reduced rate**

17. Set 8000 psi CBP at ~4714'. Perf the following 3-3/8" gun, 23 gm, 0.36" hole:

| Zone | From | To | spf | # of shots |
|---|---|---|---|---|
| WASATCH | 4529 | 4531 | 4 | 8 |
| WASATCH | 4670 | 4674 | 4 | 16 |
| WASATCH | 4680 | 4684 | 4 | 16 |
| # of Perfs/stage | | | | 40 |

18. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 7 on attached listing. Under-displace to ~4479' and flush only with recycled water.

19. Set 8000 psi CBP at~4479'.

20. TIH with 3 7/8" bit, pump off sub, SN and tubing.

21. Drill plugs and clean out to PBTD Pump off sub and land tubing at ±**8350**' unless indicated otherwise by the well's behavior. This well will be commingled at this time.

22. RDMO

**For design questions, please call**
**David Cocciolone, Denver, CO**
**(832)-453-2043 (Cell)**
**(720)-929-6716 (Office)**

**For field implementation questions, please call**
**Robert Miller, Vernal, UT**
**(435)-781-7041 (Office)**

NOTES:
Well located In NBU Central, just to the West of Goat Pasture. Some stages are pumped at lower rates to avoid water.

**NBU 1021-13G**
**Perforation and CBP Summary**

| Stage | Zones | Perforations Top, ft | Perforations Bottom, ft | SPF | Holes | | Fracture Coverage | | |
|---|---|---|---|---|---|---|---|---|---|
| 1 | WASATCH | | No Perfs | | | | 6835 | to | 6836 |
| | WASATCH | | No Perfs | | | | 6839 | to | 6840 |
| | WASATCH | | No Perfs | | | | 6850 | to | 6851 |
| | WASATCH | | No Perfs | | | | 6862 | to | 6864 |
| | WASATCH | | No Perfs | | | | 6866 | to | 6868 |
| | WASATCH | | No Perfs | | | | 6879 | to | 6881 |
| | WASATCH | | No Perfs | | | | 6882 | to | 6885 |
| | WASATCH | | No Perfs | | | | 6900 | to | 6900 |
| | WASATCH | 6902 | 6906 | 4 | 16 | | 6903 | to | 6905 |
| | WASATCH | | No Perfs | | | | 6919 | to | 6920 |
| | WASATCH | | No Perfs | | | | 6952 | to | 6953 |
| | WASATCH | 6994 | 6997 | 4 | 12 | | 6971 | to | 6972 |
| | WASATCH | | No Perfs | | | | 7013 | to | 7014 |
| | WASATCH | 7025 | 7028 | 4 | 12 | | 7020 | to | 7022 |
| | # of Perfs/stage | | | | 40 | | CBP DEPTH | 6837 | |
| 2 | WASATCH | | No Perfs | | | | 6680 | to | 6681 |
| | WASATCH | | No Perfs | | | | 6701 | to | 6701 |
| | WASATCH | | No Perfs | | | | 6705 | to | 6706 |
| | WASATCH | 6713 | 6716 | 3 | 9 | | 6711 | to | 6717 |
| | WASATCH | | No Perfs | | | | 6718 | to | 6718 |
| | WASATCH | | No Perfs | | | | 6746 | to | 6747 |
| | WASATCH | | No Perfs | | | | 6749 | to | 6750 |
| | WASATCH | | No Perfs | | | | 6754 | to | 6755 |
| | WASATCH | 6769 | 6772 | 2 | 6 | | 6768 | to | 6772 |
| | WASATCH | | No Perfs | | | | 6786 | to | 6787 |
| | WASATCH | | No Perfs | | | | 6789 | to | 6792 |
| | WASATCH | | No Perfs | | | | 6796 | to | 6797 |
| | WASATCH | 6800 | 6807 | 4 | 28 | | 6800 | to | 6804 |
| | WASATCH | | No Perfs | | | | 6810 | to | 6812 |
| | # of Perfs/stage | | | | 43 | | CBP DEPTH | 6608 | |
| 3 | WASATCH | | No Perfs | | | | 6330 | to | 6335 |
| | WASATCH | | No Perfs | | | | 6340 | to | 6346 |
| | WASATCH | | No Perfs | | | | 6376 | to | 6379 |
| | WASATCH | 6418 | 6422 | 4 | 16 | | 6411 | to | 6423 |
| | WASATCH | 6572 | 6578 | 4 | 24 | | 6572 | to | 6576 |
| | WASATCH | | No Perfs | | | | 6578 | to | 6578 |
| | WASATCH | | No Perfs | | | | 6597 | to | 6598 |
| | # of Perfs/stage | | | | 40 | | CBP DEPTH | 6153 | |
| 4 | WASATCH | | No Perfs | | | | 5919 | to | 5919 |
| | WASATCH | | No Perfs | | | | 6001 | to | 6002 |
| | WASATCH | 6002 | 6006 | 4 | 16 | | 6002 | to | 6005 |
| | WASATCH | | No Perfs | | | | 6013 | to | 6013 |
| | WASATCH | 6117 | 6123 | 4 | 24 | | 6117 | to | 6121 |
| | # of Perfs/stage | | | | 40 | | CBP DEPTH | 5854 | |
| 5 | WASATCH | | No Perfs | | | | 5624 | to | 5625 |
| | WASATCH | | No Perfs | | | | 5637 | to | 5638 |
| | WASATCH | | No Perfs | | | | 5709 | to | 5710 |
| | WASATCH | 5710 | 5713 | 4 | 12 | | 5710 | to | 5714 |
| | WASATCH | | No Perfs | | | | 5714 | to | 5715 |
| | WASATCH | | No Perfs | | | | 5722 | to | 5723 |
| | WASATCH | | No Perfs | | | | 5762 | to | 5762 |
| | WASATCH | | No Perfs | | | | 5773 | to | 5775 |
| | WASATCH | | No Perfs | | | | 5783 | to | 5788 |
| | WASATCH | 5790 | 5794 | 4 | 16 | | 5790 | to | 5795 |
| | WASATCH | | No Perfs | | | | 5810 | to | 5811 |
| | WASATCH | 5821 | 5824 | 4 | 12 | | 5814 | to | 5826 |
| | # of Perfs/stage | | | | 40 | | CBP DEPTH | 5291 | |
| 6 | WASATCH | | No Perfs | | | | 5203 | to | 5206 |
| | WASATCH | 5206 | 5208 | 3 | 6 | | 5207 | to | 5208 |
| | WASATCH | | No Perfs | | | | 5209 | to | 5210 |
| | WASATCH | | No Perfs | | | | 5221 | to | 5223 |
| | WASATCH | | No Perfs | | | | 5228 | to | 5229 |
| | WASATCH | | No Perfs | | | | 5232 | to | 5234 |
| | WASATCH | | No Perfs | | | | 5235 | to | 5236 |
| | WASATCH | 5242 | 5244 | 4 | 8 | | 5238 | to | 5247 |
| | WASATCH | 5251 | 5261 | 3 | 30 | | 5248 | to | 5263 |
| | WASATCH | | No Perfs | | | | 5263 | to | 5268 |
| | # of Perfs/stage | | | | 44 | | CBP DEPTH | 4714 | |
| 7 | WASATCH | | No Perfs | | | | 4475 | to | 4476 |
| | WASATCH | | No Perfs | | | | 4527 | to | 4527 |
| | WASATCH | 4529 | 4531 | 4 | 8 | | 4528 | to | 4531 |
| | WASATCH | | No Perfs | | | | 4531 | to | 4532 |
| | WASATCH | | No Perfs | | | | 4613 | to | 4613 |
| | WASATCH | | No Perfs | | | | 4663 | to | 4665 |
| | WASATCH | 4670 | 4674 | 4 | 16 | | 4668 | to | 4672 |
| | WASATCH | | No Perfs | | | | 4672 | to | 4673 |
| | WASATCH | | No Perfs | | | | 4674 | to | 4681 |
| | WASATCH | 4680 | 4684 | 4 | 16 | | 4682 | to | 4683 |
| | WASATCH | | No Perfs | | | | 4684 | to | 4689 |
| | WASATCH | | No Perfs | | | | 4693 | to | 4695 |
| | # of Perfs/stage | | | | 40 | | CBP DEPTH | 4,479 | |
| | Totals | | | | 287 | | | | |

Fracturing Schedules
NBU 1021-13G
Slickwater Frac

| Stage | Zone | Feet of Pay | Perfs Top, ft. | Perfs Bot., ft | SPF | Holes | Rate BPM | Fluid Type | Initial ppg | Final ppg | Fluid | Volume BBLs | Cum Vol BBLs | Fluid % of frac | Sand % of frac | Sand lbs | Cum. Sand lbs | Footage from CBP to Flush | Scale Inhib., gal. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | WASATCH | 1 | | No Perfs | | | Varied | Pump-in test | | | Slickwater | 0 | 0 | | | | | | |
| | WASATCH | 1 | | No Perfs | | | 0 | ISIP and 5 min ISIP | | | | | | | | | | | 44 |
| | WASATCH | 1 | | No Perfs | | | 50 | Slickwater Pad | | | Slickwater | 145 | 145 | 15.0% | 0.0% | 0 | 0 | | 18 |
| | WASATCH | 2 | | No Perfs | | | 50 | Slickwater Ramp | 0.25 | 1.25 | Slickwater | 482 | 627 | 50.0% | 39.7% | 15,188 | 15,188 | | 30 |
| | WASATCH | 2 | | No Perfs | | | 50 | Slickwater Ramp | 1.25 | 2 | Slickwater | 338 | 964 | 35.0% | 60.3% | 23,034 | 38,222 | | 0 |
| | WASATCH | 2 | | No Perfs | | | 50 | Flush (4-1/2") | | | | 106 | 1,071 | | | | 38,222 | | 44 |
| | WASATCH | 3 | | No Perfs | | | | ISDP and 5 min ISDP | | | | | | | | | | | 137 |
| | WASATCH | 1 | | No Perfs | | | | | | | | | | | | | | | |
| | WASATCH | 3 | 6902 | 6906 | 4 | 16 | | | | | | | | | | | | | |
| | WASATCH | 1 | | No Perfs | | | | | | | | | | | | | | | |
| | WASATCH | 1 | | No Perfs | | | | | | | | | | | | | | | |
| | WASATCH | 1 | 6994 | 6997 | 4 | 12 | | | | | | | | | | | | | |
| | WASATCH | 1 | | No Perfs | | | | | | | | | | | | | | | |
| | WASATCH | 3 | 7025 | 7028 | 4 | 12 | | | | | | | | | | | | | |
| | | 18 | | # of Perfs/stage | | 40 | | | | | | Flush depth | | 6852 | gal/ft CBP depth | 2,250 | 2,123 | lbs sand/ft | LOOK |
| | | | | | | | 22.3 | << Above pump time (min) | | | | | | | | | | | |
| 2 | WASATCH | 1 | | No Perfs | | | Varied | Pump-in test | | | Slickwater | 0 | 0 | | | | | | |
| | WASATCH | 1 | | No Perfs | | | 0 | ISIP and 5 min ISIP | | | | | | | | | | | |
| | WASATCH | 1 | | No Perfs | | | 50 | Slickwater Pad | | | Slickwater | 228 | 228 | 15.0% | 0.0% | 0 | 0 | | 29 |
| | WASATCH | 6 | 6713 | 6716 | 3 | 9 | 50 | Slickwater Ramp | 0.25 | 1.25 | Slickwater | 759 | 987 | 50.0% | 39.7% | 23,906 | 23,906 | | 48 |
| | WASATCH | 1 | | No Perfs | | | 50 | Slickwater Ramp | 1.25 | 2 | Slickwater | 531 | 1,518 | 35.0% | 60.3% | 36,258 | 60,164 | | 0 |
| | WASATCH | 1 | | No Perfs | | | 50 | Flush (4-1/2") | | | | 104 | 1,621 | | | | 60,164 | | 43 |
| | WASATCH | 1 | | No Perfs | | | | ISDP and 5 min ISDP | | | | | | | | | | | 119 |
| | WASATCH | 1 | | No Perfs | | | | | | | | | | | | | | | |
| | WASATCH | 4 | 6769 | 6772 | 2 | 8 | | | | | | | | | | | | | |
| | WASATCH | 1 | | No Perfs | | | | | | | | | | | | | | | |
| | WASATCH | 4 | | No Perfs | | | | | | | | | | | | | | | |
| | WASATCH | 1 | | No Perfs | | | | | | | | | | | | | | | |
| | WASATCH | 4 | 6800 | 6807 | 4 | 28 | | | | | | | | | | | | | |
| | WASATCH | 2 | | No Perfs | | | | | | | | | | | | | | | |
| | | 26 | | # of Perfs/stage | | 43 | | | | | | Flush depth | | 6663 | gal/ft CBP depth | 2,500 | 2,359 | lbs sand/ft | |
| | | | | | | | 33.8 | << Above pump time (min) | | | | | | | | | | | |
| 3 | WASATCH | 6 | | No Perfs | | | Varied | Pump-in test | | | Slickwater | 0 | 0 | | | | | | |
| | WASATCH | 6 | | No Perfs | | | 0 | ISIP and 5 min ISIP | | | | | | | | | | | |
| | WASATCH | 3 | | No Perfs | | | 40 | Slickwater Pad | | | Slickwater | 286 | 286 | 15.0% | 0.0% | 0 | 0 | | 36 |
| | WASATCH | 12 | 6418 | 6422 | 4 | 16 | 40 | Slickwater Ramp | 0.25 | 1.25 | Slickwater | 952 | 1,238 | 50.0% | 39.7% | 30,000 | 30,000 | | 60 |
| | WASATCH | 5 | 6572 | 6578 | 4 | 24 | 40 | Slickwater Ramp | 1.25 | 2 | Slickwater | 667 | 1,905 | 35.0% | 60.3% | 45,500 | 75,500 | | 0 |
| | WASATCH | 1 | | No Perfs | | | 40 | Flush (4-1/2") | | | | 99 | 2,004 | | | | 75,500 | | 40 |
| | WASATCH | 1 | | No Perfs | | | | ISDP and 5 min ISDP | | | | | | | | | | | 136 |
| | | 32 | | # of Perfs/stage | | 40 | | | | | | Flush depth | | 6368 | gal/ft CBP depth | 2,500 | 2,359 | lbs sand/ft | |
| | | | | | | | 52.2 | << Above pump time (min) | | | | | | | | | | | |
| 4 | WASATCH | 1 | | No Perfs | | | Varied | Pump-in test | | | Slickwater | 0 | 0 | | | | | | |
| | WASATCH | 1 | | No Perfs | | | 0 | ISIP and 5 min ISIP | | | | | | | | | | | |
| | WASATCH | 3 | 6002 | 6006 | 4 | 16 | 50 | Slickwater Pad | | | Slickwater | 68 | 68 | 15.0% | 0.0% | 0 | 0 | | 9 |
| | WASATCH | 1 | | No Perfs | | | 50 | Slickwater Ramp | 0.25 | 1.25 | Slickwater | 228 | 296 | 50.0% | 39.7% | 7,172 | 7,172 | | 14 |
| | WASATCH | 4 | 6117 | 6123 | 4 | 24 | 50 | Slickwater Ramp | 1.25 | 2 | Slickwater | 159 | 455 | 35.0% | 60.3% | 10,877 | 18,049 | | 0 |
| | | | | | | | 50 | Flush (4-1/2") | | | | 93 | 548 | | | | 18,049 | | 38 |
| | | | | | | | | ISDP and 5 min ISDP | | | | | | | | | | | 51 |
| | | | | | | | | | | | | | LOOK | | | | | | |
| | | 9 | | # of Perfs/stage | | 40 | | | | | | Flush depth | | 5952 | gal/ft CBP depth | 2,250 | 2,123 | lbs sand/ft | |
| | | | | | | | 11.4 | << Above pump time (min) | | | | | | | | | | | |
| 5 | WASATCH | 1 | | No Perfs | | | Varied | Pump-in test | | | Slickwater | 0 | 0 | | | | | | |
| | WASATCH | 1 | | No Perfs | | | 0 | ISIP and 5 min ISIP | | | | | | | | | | | |
| | WASATCH | 1 | | No Perfs | | | 50 | Slickwater Pad | | | Slickwater | 269 | 269 | 15.0% | 0.0% | 0 | 0 | | 34 |
| | WASATCH | 4 | 5710 | 5713 | 4 | 12 | 50 | Slickwater Ramp | 0.25 | 1.25 | Slickwater | 897 | 1,167 | 50.0% | 39.7% | 28,266 | 28,266 | | 57 |
| | WASATCH | 1 | | No Perfs | | | 50 | Slickwater Ramp | 1.25 | 2 | Slickwater | 628 | 1,795 | 35.0% | 60.3% | 42,870 | 71,135 | | 0 |
| | WASATCH | 1 | | No Perfs | | | 50 | Flush (4-1/2") | | | | 88 | 1,883 | | | | 71,135 | | 34 |
| | WASATCH | 1 | | No Perfs | | | | ISDP and 5 min ISDP | | | | | | | | | | | 125 |
| | WASATCH | 2 | | No Perfs | | | | | | | | | | | | | | | |
| | WASATCH | 6 | | No Perfs | | | | | | | | | | | | | | | |
| | WASATCH | 5 | 5790 | 5794 | 4 | 16 | | | | | | | | | | | | | |
| | WASATCH | 1 | | No Perfs | | | | | | | | | | | | | | | |
| | WASATCH | 13 | 5821 | 5824 | 4 | 12 | | | | | | | | | | | | | |
| | | 34 | | # of Perfs/stage | | 40 | | | | | | Flush depth | | 5660 | gal/ft CBP depth | 2,250 | 2,123 | lbs sand/ft | |
| | | | | | | | 39.3 | << Above pump time (min) | | | | | | | | | | | |
| 6 | WASATCH | 4 | | No Perfs | | | Varied | Pump-in test | | | Slickwater | 0 | 0 | | | | | | |
| | WASATCH | 2 | 5206 | 5208 | 3 | 6 | 0 | ISIP and 5 min ISIP | | | | | | | | | | | |
| | WASATCH | 1 | | No Perfs | | | 40 | Slickwater Pad | | | Slickwater | 293 | 293 | 15.0% | 0.0% | 0 | 0 | | 37 |
| | WASATCH | 2 | | No Perfs | | | 40 | Slickwater Ramp | 0.25 | 1.25 | Slickwater | 976 | 1,269 | 50.0% | 39.7% | 30,750 | 30,750 | | 62 |
| | WASATCH | 1 | | No Perfs | | | 40 | Slickwater Ramp | 1.25 | 2 | Slickwater | 683 | 1,952 | 35.0% | 60.3% | 46,638 | 77,388 | | 0 |
| | WASATCH | 2 | | No Perfs | | | 40 | Flush (4-1/2") | | | | 80 | 2,033 | | | | 77,388 | | 31 |
| | WASATCH | 1 | | No Perfs | | | | ISDP and 5 min ISDP | | | | | | | | | | | 129 |
| | WASATCH | 10 | 5242 | 5244 | 4 | 8 | | | | | | | | | | | | | |
| | WASATCH | 15 | 5251 | 5261 | 3 | 30 | | | | | | | | | | | | | |
| | WASATCH | 5 | | No Perfs | | | | | | | | | | | | | | | |
| | | 41 | | # of Perfs/stage | | 44 | | | | | | Flush depth | | 5156 | gal/ft CBP depth | 2,000 | 1,888 | lbs sand/ft | |
| | | | | | | | 53.0 | | | | | | | | | | | | |
| 7 | WASATCH | 2 | | No Perfs | | | Varied | Pump-in test | | | Slickwater | 0 | 0 | | | | | | |
| | WASATCH | 1 | | No Perfs | | | 0 | ISIP and 5 min ISIP | | | | | | | | | | | |
| | WASATCH | 3 | 4529 | 4531 | 4 | 8 | 50 | Slickwater Pad | | | Slickwater | 214 | 214 | 15.0% | 0.0% | 0 | 0 | | 27 |
| | WASATCH | 1 | | No Perfs | | | 50 | Slickwater Ramp | 0.25 | 1.25 | Slickwater | 714 | 929 | 50.0% | 39.7% | 22,500 | 22,500 | | 45 |
| | WASATCH | 1 | | No Perfs | | | 50 | Slickwater Ramp | 1.25 | 2 | Slickwater | 500 | 1,429 | 35.0% | 60.3% | 34,125 | 56,625 | | 0 |
| | WASATCH | 2 | | No Perfs | | | 50 | Flush (4-1/2") | | | | 70 | 1,498 | | | | 56,625 | | 0 |
| | WASATCH | 4 | 4670 | 4674 | 4 | 16 | | ISDP and 5 min ISDP | | | | | | | | | | | 72 |
| | WASATCH | 1 | | No Perfs | | | | | | | | | | | | | | | |
| | WASATCH | 8 | | No Perfs | | | | | | | | | | | | | | | |
| | WASATCH | 2 | 4680 | 4684 | 4 | 16 | | | | | | | | | | | | | |
| | WASATCH | 6 | | No Perfs | | | | | | | | | | | | | | | |
| | WASATCH | 2 | | No Perfs | | | | | | | | | | | | | | | |
| | | 30 | | # of Perfs/stage | | 40 | | | | | | Flush depth | | 4479 | gal/ft CBP depth | 2,000 | 1,888 | lbs sand/ft | LOOK |
| | | | | | | | 31.2 | | | | | | | | | | | | |
| | Totals | 189 | | | | 287 | | | | | | gals | 10,656 | bbls | Total Sand | | 397,093 | | |
| | | | | | | | 4.1 | | | | | bbls | 23.7 | tanks | | | | Total Scale Inhib. = | 780 |

**STATE OF UTAH**
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT ☑ (highlight changes) FORM 8

# WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: ML-23608
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
7. UNIT or CA AGREEMENT NAME: UNIT #891008900A
8. WELL NAME and NUMBER: NBU 1021-13G
9. API NUMBER: 4304737723
10 FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SWNE 13 10S 21E
12. COUNTY: UINTAH
13. STATE: UTAH

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ DRY ☐ OTHER
b. TYPE OF WORK: NEW WELL ☐ HORIZ. LATS. ☐ DEEP-EN ☐ RE-ENTRY ☐ DIFF. RESVR. ☑ OTHER RECOMPLETE
2. NAME OF OPERATOR: KERR McGEE OIL & GAS ONSHORE LP
3. ADDRESS OF OPERATOR: 1368 S 1200 E CITY VERNAL STATE UT ZIP 84078 PHONE NUMBER: (435) 781-7024
4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: 1444'FNL, 2651'FEL
AT TOP PRODUCING INTERVAL REPORTED BELOW:
AT TOTAL DEPTH:

14. DATE SPUDDED: 11/27/2007
15. DATE T.D. REACHED: 12/20/2007
16. DATE COMPLETED: 9/28/2008 ABANDONED ☐ READY TO PRODUCE ☑
17. ELEVATIONS (DF, RKB, RT, GL): 5255'GL
18. TOTAL DEPTH: MD 9,131 TVD
19. PLUG BACK T.D.: MD 9,040 TVD
20. IF MULTIPLE COMPLETIONS, HOW MANY? *
21. DEPTH BRIDGE PLUG SET: MD TVD
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
N/A
23.
WAS WELL CORED? NO ☑ YES ☐ (Submit analysis)
WAS DST RUN? NO ☑ YES ☐ (Submit report)
DIRECTIONAL SURVEY? NO ☑ YES ☐ (Submit copy)

**24. CASING AND LINER RECORD (Report all strings set in well)**

| HOLE SIZE | SIZE/GRADE | WEIGHT (#/ft.) | TOP (MD) | BOTTOM (MD) | STAGE CEMENTER DEPTH | CEMENT TYPE & NO. OF SACKS | SLURRY VOLUME (BBL) | CEMENT TOP ** | AMOUNT PULLED |
|---|---|---|---|---|---|---|---|---|---|
| 20" | 14" STL | 36.7# | | 40 | | 28 | | | |
| 12 1/4" | 9 5/8 J-55 | 36# | | 2,220 | | 800 | | | |
| 7 7/8" | 4 1/2 I-80 | 11.6# | | 9,131 | | 1535 | | | |
| | | | | | | | | | |
| | | | | | | | | | |
| | | | | | | | | | |

**25. TUBING RECORD**

| SIZE | DEPTH SET (MD) | PACKER SET (MD) | SIZE | DEPTH SET (MD) | PACKER SET (MD) | SIZE | DEPTH SET (MD) | PACKER SET (MD) |
|---|---|---|---|---|---|---|---|---|
| 2 3/8" | 8,356 | | | | | | | |

**26. PRODUCING INTERVALS**

| FORMATION NAME | TOP (MD) | BOTTOM (MD) | TOP (TVD) | BOTTOM (TVD) |
|---|---|---|---|---|
| (A) WASATCH | 4,529 | 7,028 | | |
| (B) | | | | |
| (C) | | | | |
| (D) | | | | |

**27. PERFORATION RECORD**

| INTERVAL (Top/Bot - MD) | SIZE | NO. HOLES | PERFORATION STATUS |
|---|---|---|---|
| 4,529 7,028 | 0.36 | 245 | Open ☑ Squeezed ☐ |
| | | | Open ☐ Squeezed ☐ |
| | | | Open ☐ Squeezed ☐ |
| | | | Open ☐ Squeezed ☐ |

**28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.**

| DEPTH INTERVAL | AMOUNT AND TYPE OF MATERIAL |
|---|---|
| 4529'-7028' | PMP 10,884 BBLS SLICK H2O & 391,526# 30/50 SD |
| | |
| | |

**29. ENCLOSED ATTACHMENTS:**

☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☐ DIRECTIONAL SURVEY
☐ SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION ☐ CORE ANALYSIS ☐ OTHER:

**30. WELL STATUS:** PROD

RECEIVED
OCT 20 2008
DIV. OF OIL, GAS & MINING

(5/2000) **(CONTINUED ON BACK)**

**31. INITIAL PRODUCTION**

**INTERVAL A (As shown in item #26)**

| DATE FIRST PRODUCED: | TEST DATE: | HOURS TESTED: | TEST PRODUCTION RATES: → | OIL – BBL: | GAS – MCF: | WATER – BBL: | PROD. METHOD: |
|---|---|---|---|---|---|---|---|
| 9/28/2008 | 9/29/2008 | 24 | | 0 | 1,781 | 440 | FLOWING |

| CHOKE SIZE: | TBG. PRESS. | CSG. PRESS. | API GRAVITY | BTU – GAS | GAS/OIL RATIO | 24 HR PRODUCTION RATES: → | OIL – BBL: | GAS – MCF: | WATER – BBL: | INTERVAL STATUS: |
|---|---|---|---|---|---|---|---|---|---|---|
| 18/64 | 812 | 1,289 | | | | | 0 | 1,781 | 440 | PROD |

**INTERVAL B (As shown in item #26)**

| DATE FIRST PRODUCED: | TEST DATE: | HOURS TESTED: | TEST PRODUCTION RATES: → | OIL – BBL: | GAS – MCF: | WATER – BBL: | PROD. METHOD: |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

| CHOKE SIZE: | TBG. PRESS. | CSG. PRESS. | API GRAVITY | BTU – GAS | GAS/OIL RATIO | 24 HR PRODUCTION RATES: → | OIL – BBL: | GAS – MCF: | WATER – BBL: | INTERVAL STATUS: |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |

**INTERVAL C (As shown in item #26)**

| DATE FIRST PRODUCED: | TEST DATE: | HOURS TESTED: | TEST PRODUCTION RATES: → | OIL – BBL: | GAS – MCF: | WATER – BBL: | PROD. METHOD: |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

| CHOKE SIZE: | TBG. PRESS. | CSG. PRESS. | API GRAVITY | BTU – GAS | GAS/OIL RATIO | 24 HR PRODUCTION RATES: → | OIL – BBL: | GAS – MCF: | WATER – BBL: | INTERVAL STATUS: |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |

**INTERVAL D (As shown in item #26)**

| DATE FIRST PRODUCED: | TEST DATE: | HOURS TESTED: | TEST PRODUCTION RATES: → | OIL – BBL: | GAS – MCF: | WATER – BBL: | PROD. METHOD: |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

| CHOKE SIZE: | TBG. PRESS. | CSG. PRESS. | API GRAVITY | BTU – GAS | GAS/OIL RATIO | 24 HR PRODUCTION RATES: → | OIL – BBL: | GAS – MCF: | WATER – BBL: | INTERVAL STATUS: |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |

**32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)**

SOLD

**33. SUMMARY OF POROUS ZONES (Include Aquifers):**

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

**34. FORMATION (Log) MARKERS:**

| Formation | Top (MD) | Bottom (MD) | Descriptions, Contents, etc. | Name | Top (Measured Depth) |
|---|---|---|---|---|---|
| WASATCH | 4,451 | | | | |
| MESAVERDE | 7,140 | | | | |

**35. ADDITIONAL REMARKS (Include plugging procedure)**

**36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.**

NAME (PLEASE PRINT) SHEILA UPCHEGO TITLE REGULATORY ANALYST

SIGNATURE Sheila Upchego DATE 10/13/2008

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

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(5/2000)